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Set	Items	Description
S1	206265	(MEASUR???? OR RECORD??? OR CALCULAT??? OR COMPUTE? ? OR - COMPUTES OR COMPUTING OR ANALY???? OR GUAG??? OR DETERMIN???-) (5N)VOLTAGE? ?
S2	205435	(WITHOUT OR "NOT" OR "NO" OR WITH()OUT OR OMIT??? OR OMISI- ON OR EXCLUD???) (3N)CURRENT??
S3	225877	(APPLY???? OR APPLICATION OR SUPPL???? OR PROVID???? OR DI- STRIBUT????) (3N)CURRENT??
S4	49212537	VEGETABLE? ? OR POTATO?? OR PLANT?? OR TREE OR CROP?? OR A- GRICULTURE?? OR LIVING OR BODY OR BODIES OR CREATURE?? OR ANI-

MAL?? OR PERSON?? OR HUMAN OR MAN OR MEN OR CHILD OR ALIVE
 S5 1034927 INDUC???(3N)CURRENT OR MAGNETIC(3N)FIELD?? OR EMF OR ELECT-
 RONIC(2N)MAGNETIC?? OR ELECTRO()MAGNETIC??
 S6 5972 AU=(KAVET R? OR KAVET, R? OR NIPPLE J? OR NIPPLE, J? OR SU-
 LLIVAN T? OR SULLIVAN, T? OR ZAFFANELLA L? OR ZAFFANELLA, L?)
 S7 19 S1 AND S2 AND S3 AND S4 AND S5
 S8 10 RD (unique items)
 S9 260 S1 AND S2 AND S4 AND S5
 S10 1756 S1(5N)S4
 S11 6 S10 AND S2 AND S5
 S12 3 RD (unique items)
 S13 149 S10 AND (S2 OR S5)
 S14 81 RD (unique items)
 S15 57 S14 NOT PY>2000
 S16 54 S15 NOT (S12 OR S8)
 S17 1 S6 AND S10

8/3,K/1 (Item 1 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2008 Dialog. All rts. reserv.

15253181 PMID: 12832552

Activation of beta1-adrenoceptors excites striatal cholinergic interneurons through a cAMP-dependent, protein kinase-independent pathway.

Pisani A; Bonsi P; Centonze D; Martorana A; Fusco F; Sancesario G; De Persis C; Bernardi G; Calabresi P

Clinica Neurologica, Dipartimento di Neuroscienze, Universita di Roma Tor Vergata, Rome, Italy. pisani@uniroma2.it

Journal of neuroscience - the official journal of the Society for Neuroscience (United States) Jun 15 2003, 23 (12) p5272-82, ISSN 1529-2401--Electronic Journal Code: 8102140

Publishing Model Print

Document type: In Vitro; Journal Article; Research Support, Non-U.S. Gov't

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

... induced both an increase in the spontaneous firing activity and a membrane depolarization of the recorded cells. In voltage-clamped neurons, an inward current was induced by NA. This effect was not prevented by alpha-adrenoceptor antagonists, whereas it was mimicked...
... cyclase inhibitor, reduced the response to NA. Analysis of the reversal potential of the NA- induced current did not provide homogeneous results, indicating the involvement of multiple membrane conductances. Because cAMP is known to modulate...

... the effects of ZD7288, a selective inhibitor of Ih current, were examined on the NA- induced membrane depolarization/inward current . ZD7288 mostly reduced the response to NA. However, both KT-5720 and H-89, selective...

; Adenylate Cyclase--metabolism--ME; Animals ; Choline O-Acetyltransferase--metabolism--ME; Cholinergic Fibers--drug effects--DE; Cholinergic Fibers--physiology--PH; Corpus...

8/3,K/2 (Item 2 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2008 Dialog. All rts. reserv.

11789525 PMID: 8683468

Sodium-dependent GABA-induced currents in GAT1-transfected HeLa cells.

Risso S; DeFelice L J; Blakely R D

Department of Anatomy and Cell Biology, Emory University School of Medicine, Atlanta, GA 30322, USA.

Journal of physiology (ENGLAND) Feb 1 1996, 490 (Pt 3) p691-702, ISSN 0022-3751--Print Journal Code: 0266262

Contract/Grant No.: HL-27388; HL; United States NHLBI

Publishing Model Print

Document type: Journal Article; Research Support, U.S. Gov't, P.H.S.

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

...downstream of a T7 RNA polymerase promoter. Six to sixteen hours after transfection, whole-cell recording with a voltage ramp in the range -90 to 50 mV revealed GABA-induced currents (approximately -100 pA at -60 mV in 100 microM GABA, 16 h after transfection at room temperature). No GABA-induced currents were observed in parental HeLa cells or in mock-transfected cells. 2. GABA-induced currents...

...is inconsistent with frog oocyte expression experiments using the sample clone. In oocytes, GAT1 generates no outward current in a similar voltage range. Smaller intracellular volume or higher turnover rates in the mammalian expression system may explain the outward currents. 4. External GABA induces inward current, and internal GABA induces outward current. However, in cells initially devoid of internal GABA, external GABA can also facilitate an outward current. This GAT1-mediated outward current occurs only after applying negative potentials to the cell. These data are consistent with the concept that negative potentials...

; Animals ; Cells, Cultured; Dose-Response Relationship, Drug; GABA Plasma Membrane Transport Proteins; Hela Cells--drug effects...

...Chemical Name: GABA Plasma Membrane Transport Proteins; Membrane Proteins; Membrane Transport Proteins; Organic Anion Transporters; SLC6A1 protein, human ; Slc6a1 protein, rat; gamma-Aminobutyric Acid; Sodium

8/3,K/3 (Item 3 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

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11588370 PMID: 7494377

Potentiation of GABA-induced inhibition by 20-hydroxyecdysone, a neurosteroid, in cultured rat cortical neurons.

Tsujiyama S; Ujihara H; Ishihara K; Sasa M

Department of Pharmacology, Hiroshima University School of Medicine, Japan.

Japanese journal of pharmacology (JAPAN) May 1995, 68 (1) p133-6,

ISSN 0021-5198--Print Journal Code: 2983305R

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

...20-HE), a neurosteroid, on cultured rat cortical neurons were examined using the whole cell recording technique. Under the voltage and current clamp conditions, brief application (5 sec) of 20-HE alone did not produce current changes nor any changes in the membrane potential. However, the chemical dose-dependently potentiated the GABA-induced current and hyperpolarization, which were blocked by bicuculline. These results suggest that 20-HE acts on...

; Animals ; Bicuculline--pharmacology--PD; Cells, Cultured; Cerebral Cortex--cytology--CY; Drug Synergism; Membrane Potentials; Neurons--physiology...

8/3,K/4 (Item 4 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
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10340258 PMID: 1432705

GTP-binding protein involvement in membrane currents evoked by carbachol and histamine in guinea-pig ileal muscle.

Komori S; Kawai M; Takewaki T; Ohashi H

Department of Veterinary Science, Faculty of Agriculture, Gifu University, Japan.

Journal of physiology (ENGLAND) May 1992, 450 p105-26, ISSN 0022-3751--Print Journal Code: 0266262

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

... by enzymic dispersion of the longitudinal muscle layer of guinea-pig ileum were used for recording membrane currents under whole-cell voltage clamp in response to carbachol (100 microM, unless otherwise stated) or histamine (100 microM) applied...

... potential of -40 mV, which was considered to represent opening of cationic channels. The carbachol-induced inward current was much longer in duration and larger in size than the histamine-induced inward current . 4. Inclusion of GDP beta S (2 mM) in the pipette abolished the inward and ...

... an inward current developed a few minutes after break-through. During the GTP gamma S-induced inward current, application of carbachol or histamine produced no further inward current . However, when 0.01 mM-GTP gamma S was included in the pipette solution, carbachol...

; Animals ; Culture Techniques; Electrophysiology; Guanosine 5'-O-(3-Thiotriphosphate)--pharmacology--PD; Guinea Pigs; Membrane Potentials--drug...

8/3,K/5 (Item 5 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
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09405380 PMID: 2355258

Serotonin enhances a low-voltage-activated calcium current in rat spinal motoneurons.

Berger A J; Takahashi T

Department of Physiology, Kyoto University Faculty of Medicine, Japan.

Journal of neuroscience - the official journal of the Society for Neuroscience (UNITED STATES) Jun 1990, 10 (6) p1922-8, ISSN 0270-6474 --Print Journal Code: 8102140

Publishing Model Print

Document type: Journal Article; Research Support, Non-U.S. Gov't; Research Support, U.S. Gov't, P.H.S.

Languages: ENGLISH

Main Citation Owner: NLM
Record type: MEDLINE; Completed

... produced a low-threshold transient depolarizing response and a high-threshold long-lasting spike. In voltage-clamp recording, low (LVA) and high (HVA) voltage-activated Ca^{2+} currents were recorded in response to depolarizing voltage steps. Low concentration of Cd^{2+} (50 μM) did not reduce the amplitude of the LVA current but markedly diminished the HVA current. Bath application of 5-HT (10-50 μM) markedly increased the amplitude of the LVA current without causing a shift in the current (I)-voltage (V) relation. In contrast, 5-HT did...

... the LVA Ca^{2+} current and that this effect together with the previously reported 5-HT-induced inward current (Takahashi and Berger, 1990), would facilitate the excitation of motoneurons.

; Animals ; Cations, Divalent--pharmacology--PD; Dose-Response Relationship, Drug; Electrophysiology; Isotonic Solutions--pharmacology--PD ; Neurons--cytology...

8/3,K/6 (Item 1 from file: 73)
DIALOG(R)File 73:EMBASE
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0080206053 EMBASE No: 2004385418

Noradrenaline-induced cation currents in isolated rat paratracheal ganglion neurons

Umezu M.; Ishibashi H. // Umebayashi C.; Ito Y. // Akaike N.

Dept. of Cell. and System Physiology, Graduate School of Medical Sciences, Kyushu Univ., Fukuoka 812-8582, J. // Department of Pharmacology, Graduate School of Medical Sciences, Kyushu Univ., Fukuoka 812-8582, J. // Res. Div. Physiol. and Pharmacol., Kumamoto Health Science University, Kumamoto 861-559, Japan

AUTHOR EMAIL: h-ishi@physiol2.med.kyushu-u.ac.jp

CORRESP. AUTHOR AFFIL: Dept. of Cell. and System Physiology, Graduate School of Medical Sciences, Kyushu Univ., Fukuoka 812-8582, J.

CORRESP. AUTHOR EMAIL: h-ishi@physiol2.med.kyushu-u.ac.jp

Brain Research (Brain Res.) (Netherlands) October 8, 2004, 1023/1 (74-82)

CODEN: BRREA ISSN: 00068993

PUBLISHER ITEM IDENTIFIER: S0006899304011254

DOI: 10.1016/j.brainres.2004.07.011

DOCUMENT TYPE: Journal; Article RECORD TYPE: Abstract

LANGUAGE: English SUMMARY LANGUAGE: English

NUMBER OF REFERENCES: 48

...rats and the ionic mechanisms involved were studied with nystatin-perforated patch recording configuration. Under current-clamp conditions, application of 10 μM NA produced membrane depolarization followed by repetitive action potentials. NA evoked an...

...under voltage-clamp conditions at a holding potential of -60 mV. Transient tail inward ('hump') current was also induced by washout of NA. The NA-induced current was reduced by extracellular Ca^{2+} and Mg^{2+} , with half-maximal concentrations...

...and Mg SUP 2+, respectively. Phenylephrine, an alpha SUB 1-adrenoceptor agonist, mimicked the NA- induced current , but the 'hump' current did not occur upon washout of phenylephrine. The NA- induced current was inhibited by prazosin and WB-4101, alpha SUB 1-adrenoceptor antagonists. In contrast, in the presence of yohimbine, an alpha SUB 2-adrenoceptor antagonist, the NA- induced current was potentiated and the washout of NA failed to evoke the 'hump' current. The pretreatment of paratracheal neurons with pertussis toxin also potentiated the NA- induced current . The NA- induced inward current was inhibited by pretreatment with U73122, a phospholipase C inhibitor, and xestospongin-C, a membrane...
...On the other hand, thapsigargin, BAPTA-AM and calmidazolium had no effect on the NA- induced current , suggesting that release of Ca SUP 2+ from intracellular Ca SUP 2+ stores via IP...

MEDICAL DESCRIPTORS:

action potential; animal cell; article; calcium cell level; controlled study; extracellular space; membrane depolarization; nonhuman; priority journal; rat; recording ; voltage clamp

8/3,K/7 (Item 2 from file: 73)
DIALOG(R)File 73:EMBASE
(c) 2008 Elsevier B.V. All rts. reserv.

0076388576 EMBASE No: 1996063113
Sodium-dependent GABA-induced currents in GAT1-transfected HeLa cells
Risso S.; DeFelice L.J.; Blakely R.D.
Department of Pharmacology, Vanderbilt Univ. School of Medicine,
Nashville, TN 37232, United States
CORRESP. AUTHOR: DeFelice L.J.
CORRESP. AUTHOR AFFIL: Department of Pharmacology, Vanderbilt Univ.
School of Medicine, Nashville, TN 37232, United States

Journal of Physiology (J. PHYSIOL.) (United Kingdom) February 29, 1996
, 490/3 (691-702)
CODEN: JPHYA ISSN: 00223751
DOCUMENT TYPE: Journal; Article RECORD TYPE: Abstract
LANGUAGE: English SUMMARY LANGUAGE: English

...downstream of a T7 RNA polymerase promoter. Six to sixteen hours after transfection, whole-cell recording with a voltage ramp in the range -90 to 50 mV revealed GABA-induced currents (approximately -100 pA at -60 mV in 100 muM GABA, 16 h after transfection at room temperature). No GABA-induced currents were observed in parental HeLa cells or in mock-transfected cells. 2. GABA-induced currents...

...is inconsistent with frog oocyte expression experiments using the same clone. In oocytes, GAT1 generates no outward current in a similar voltage range. Smaller intracellular volume or higher turnover rates in the mammalian expression system may explain the outward currents. 4. External GABA induces inward current , and internal GABA induces outward current . However, in cells initially devoid of internal GABA, external GABA can also facilitate an outward current. This GAT1-mediated outward current occurs only after applying negative potentials to the cell. These data are consistent with the concept that negative potentials...

MEDICAL DESCRIPTORS:

animal cell; article; cell membrane potential; controlled study; hela

cell; human ; human cell ; nonhuman; oocyte; priority journal; voltage clamp; xenopus

8/3,K/8 (Item 1 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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18624802 BIOSIS NO.: 200510319302
Modulation of GluR1 AMPA receptor channels in hybrid striped bass retina
suppression by zinc
AUTHOR: Zeng Qing Hua (Reprint); McMahon Douglas
AUTHOR ADDRESS: NE Normal Univ, Sch Life Sci, Dept Biol, Changchun 130024,
Peoples R China**Peoples R China
JOURNAL: FASEB Journal 19 (5, Suppl. S, Part 2): pA1201 MAR 7 2005 2005
CONFERENCE/MEETING: Experimental Biology 2005 Meeting/35th International
Congress of Physiological Sciences San Diego, CA, USA March 31 -April 06,
2005; 20050331
SPONSOR: Amer Assoc Anatomists
Amer Assoc Immunologists
Amer Physiol Soc
Amer Soc Biochem & Mol Biol
Amer Soc Investigat Pathol
Amer Soc Nutr Sci
Amer Soc Pharmacol & Expt Therapeut
Int Union Physiol Sci
ISSN: 0892-6638
DOCUMENT TYPE: Meeting; Meeting Abstract
RECORD TYPE: Abstract
LANGUAGE: English

...ABSTRACT: calcium phosphate 48-72 hours after transfection.
Receptor-expressing cells were identified by fluorescence and recorded
in the whole-cell voltage-clamp configuration. Steady-state current was
determined using voltage ramps from 100 to +60mV. Glutamate-evoked
current displayed outward rectification with reversal potentials a...

...92+/-5%(p<0.001;n=5) 1 mM zinc almost completely abolished the glutamate-
induced current (p<0.05;n=4) Recovery from zinc inhibition occurred
rapidly upon washout. In the...

...outward current were reduced compared with a change in the reversal
potential of glutamate-induced currents. Application of zinalone did
not evoke currents. Zinc suppression of glutamate responses persisted
in the presence of 30uM CTZ.(N=8) Conclusions...

DESCRIPTORS:

...BIOSYSTEMATIC NAMES: Primates, Mammalia, Vertebrata, Chordata,
Animalia ; ...

...Pisces, Vertebrata, Chordata, Animalia

...COMMON TAXONOMIC TERMS: Animals ;

8/3,K/9 (Item 1 from file: 35)
DIALOG(R)File 35:Dissertation Abs Online
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01690939 ORDER NO: AAD99-19869

MODELING OF GROUND GRID AND METALLIC STRUCTURE CURRENTS AND ANALYSIS OF

THEIR EFFECTS ON THE MAGNETIC FIELD IN HIGH VOLTAGE AC SUBSTATIONS

Author: HUANG, LIYING

Degree: PH.D.

Year: 1999

Corporate Source/Institution: THE OHIO STATE UNIVERSITY (0168)

Source: VOLUME 60/02-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 765. 165 PAGES

MODELING OF GROUND GRID AND METALLIC STRUCTURE CURRENTS AND ANALYSIS OF

THEIR EFFECTS ON THE MAGNETIC FIELD IN HIGH VOLTAGE AC SUBSTATIONS

There has been a strong interest in power frequency magnetic field generated by high voltage facilities due to the public concern of their effect on the human health. Currents are the source of magnetic field. Therefore, a complete knowledge of currents in high voltage ac substations is necessary to determine the magnetic field distribution in and near the substations. The most difficult currents to determine are those in...

...and metallic structures. A comprehensive review of previous research on modeling and calculation of the current distribution is presented first. A mathematical model for accurately computing the ground grid and metallic structure...

...grid is divided by finite segments and accurate equations for the ground grid segment leakage current distribution are used. The developed model considers not only the current leakage to the soil but also resistive and inductive effects, and can be applied to...

...results of calculations, and field measurements. Comparison is also made between the calculated and measured magnetic field flux density. In addition, all current sources in the substations and their contributions to the magnetic fields are discussed.

The developed mathematical model is essential for accurately modeling of substation current distribution, for investigation of magnetic field distribution and magnetic field management in power substations, and for determination of ground grid resistance, potential distribution and ground...

8/3,K/10 (Item 1 from file: 357)

DIALOG(R)File 357:Derwent Biotech Res.

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0305181 DBR Accession No.: 2003-06966 PATENT

Chip for molecular detection comprises a semiconductor substrate, a micro-fluid channel serving as a flow path of a molecular sample, and a metal oxide silicon field-effect transistor on the sidewalls of the micro-fluid channel - the use of biochip device in mutation detection and diagnosis

AUTHOR: LIM G; PARK C; CHO Y; KIM S

PATENT ASSIGNEE: SAMSUNG ELECTRONICS CO LTD 2002

PATENT NUMBER: WO 200286162 PATENT DATE: 20021031 WPI ACCESSION NO.:
2003-075633 (200307)
PRIORITY APPLIC. NO.: KR 78010 APPLIC. DATE: 20011211
NATIONAL APPLIC. NO.: WO 2002KR746 APPLIC. DATE: 20020423
LANGUAGE: English

...ABSTRACT: convex corner. In defining the channel region, an etch stop point is determined by measuring current level variations with application of reverse bias voltage to the semiconductor substrate. Preferred Device: In (II) or (III), the...

... sensor by allowing the molecular probes to move along the micro-fluid channel; and (c) measuring current- voltage characteristics of the gate electrode. (II) is also useful for quantifying the binding of molecular...

... MOSFET sensor by allowing the molecular probes to move along the micro-fluid channel; (c) measuring current- voltage characteristics of the gate electrode; (d) providing the target molecular sample into the molecular-sample...

... by allowing the target molecular sample to move along the micro-fluid channel; and (f) measuring current- voltage characteristics of the gate electrode and comparing the result of the measurement with the above mentioned current- voltage characteristics. Preferably, the hybridization of a probe nucleic acid to a target nucleic acid is...

...separate the double-stranded nucleic acid which are hybridized, into two single strands; and (e) measuring current- voltage characteristics of the gate electrode of the metal oxide silicon-field effect transistor sensor. Optionally...

... to renature single-stranded nucleic acids into double-stranded nucleic acids which are hybridized, and measuring current- voltage characteristics of the gate electrode of the MOSFET sensor. The method preferably detects a single...more uniform throughout the micro-fluid channel, to improve reliability in assay results. EXAMPLE - The body of a molecular detection device or a nucleic acid mutation assay device was formed by...

...the heater. As the thermal sensor, a bimetal thermocouple for generating temperature-dependent electromotive force (EMF), a resistive thermometer or thermistor including temperature-dependent electric resistance material, an IC thermal sensor...

...of the probe DNA and 20 micro Amps for 80 microliters of the probe DNA. No increase in current dropping level was observed for more than 80 microliters of the probe DNA. By measuring...

12/3,K/1 (Item 1 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
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12678417 PMID: 9603227

Functional modulation of P2X2 receptors by cyclic AMP-dependent protein kinase.

Chow Y W; Wang H L

Department of Physiology, Chang Gung University School of Medicine,
Tao-Yuan, Taiwan, Republic of China.

Journal of neurochemistry (UNITED STATES) Jun 1998, 70 (6) p2606-12,
ISSN 0022-3042--Print Journal Code: 2985190R

Publishing Model Print

Document type: Journal Article; Research Support, Non-U.S. Gov't

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

... the function of the P2X2 purinoceptor could be regulated by the protein phosphorylation. Whole-cell voltage-clamp recording was used to record ATP-evoked cationic currents from human embryonic kidney (HEK) 293 cells stably transfected with the cDNA encoding the rat P2X2 receptor ...

...13-acetate, a PKC activator, failed to affect the amplitude and kinetics of the ATP-induced cationic current. The role of PKA phosphorylation in modulating the function of the P2X2 receptor was investigated...

... cAMP and PKA catalytic subunit caused a reduction in the magnitude of the ATP-activated current without affecting the inactivation kinetics and the value of reversal potential. Site-directed mutagenesis was also...

12/3,K/2 (Item 1 from file: 144)
DIALOG(R)File 144:Pascal
(c) 2008 INIST/CNRS. All rts. reserv.

13599863 PASCAL No.: 98-0304310

Functional modulation of P₂U₂ receptors by cyclic AMP-dependent protein kinase

CHOW Y W; WANG H L

Department of Physiology, Chang Gung University School of Medicine,
Kwei-San, Tao-Yuan, Taiwan

Journal: Journal of neurochemistry, 1998, 70 (6) 2606-2612

Language: English

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... P₂U₂ purinoceptor could be regulated by the protein phosphorylation. Whole-cell voltage-clamp recording was used to record ATP-evoked cationic currents from human embryonic kidney (HEK) 293 cells stably transfected with the cDNA encoding the rat P₂U₂...

...13-acetate, a PKC activator, failed to affect the amplitude and kinetics

of the ATP- induced cationic current . The role of PKA phosphorylation in modulating the function of the P SUB 2 SUB...

... cAMP and PKA catalytic subunit caused a reduction in the magnitude of the ATP-activated current without affecting the inactivation kinetics and the value of reversal potential. Site-directed mutagenesis was also...

12/3,K/3 (Item 1 from file: 24)
DIALOG(R)File 24:CSA Life Sciences Abstracts
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0001882153 IP ACCESSION NO: 4340408
Functional modulation of P sub(2X2) receptors by cyclic AMP-dependent protein kinase

Chow, Yu-Wen; Wang, Hung-Li*
Department of Physiology, Chang Gung University School of Medicine,
Kwei-San, Tao-Yuan Taiwan, Republic of China

Journal of Neurochemistry, v 70, n 6, p 2606-2612, June 1998
PUBLICATION DATE: 1998

DOCUMENT TYPE: Journal Article
RECORD TYPE: Abstract
LANGUAGE: English
SUMMARY LANGUAGE: English
ISSN: 0022-3042
FILE SEGMENT: CSA Neurosciences Abstracts

ABSTRACT:

... of the P sub(2X2) purinoceptor could be regulated by the protein phosphorylation. Whole-cell voltage -clamp recording was used to record ATP-evoked cationic currents from human embryonic kidney (HEK) 293 cells stably transfected with the cDNA encoding the rat P sub...

...13-acetate, a PKC activator, failed to affect the amplitude and kinetics of the ATP- induced cationic current . The role of PKA phosphorylation in modulating the function of the P sub(2X2) receptor...

...cAMP and PKA catalytic subunit caused a reduction in the magnitude of the ATP-activated current without affecting the inactivation kinetics and the value of reversal potential. Site-directed mutagenesis was also...

16/3,K/1 (Item 1 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
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13767399 PMID: 11029624

Excitable properties in astrocytes derived from human embryonic CNS stem cells.

Gritti A; Rosati B; Lecchi M; Vescovi A L; Wanke E
Department of Biotechnology and Biosciences, University of
Milano-Bicocca, Piazza della Scienza, 2, I-20126, Italy.
European journal of neuroscience (FRANCE) Oct 2000, 12 (10) p3549-59
, ISSN 0953-816X--Print Journal Code: 8918110
Publishing Model Print
Document type: Journal Article; Research Support, Non-U.S. Gov't
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

... potential (VREST) of approximately -37 mV and, more interestingly,
that spontaneous firing can be occasionally recorded in human
astrocytes. A voltage-clamp study revealed that in these cells: (i) the
half-inactivation of the tetrodotoxin (TTX...

... potentials elicited from a negative membrane potential (-55 to -60 mV);
and (iv) inwardly rectifying currents are not present. The responses
predicted from a simulation model are in agreement with the experiments. As
...

16/3,K/2 (Item 2 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
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13615017 PMID: 10848563

I4AA-Sensitive chloride current contributes to the center light responses
of bipolar cells in the tiger salamander retina.

Gao F; Maple B R; Wu S M
Cullen Eye Institute, Baylor College of Medicine, Houston, Texas 77030,
USA.
Journal of neurophysiology (UNITED STATES) Jun 2000, 83 (6) p3473-82
, ISSN 0022-3077--Print Journal Code: 0375404
Contract/Grant No.: EY-02520; EY; United States NEI; EY-04446; EY; United
States NEI
Publishing Model Print
Document type: In Vitro; Journal Article; Research Support, Non-U.S.
Gov't; Research Support, U.S. Gov't, P.H.S.
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

Light-evoked currents in depolarizing and hyperpolarizing bipolar cells
(DBC's and HBC's) were recorded under voltage-clamp conditions in living
retinal slices of the larval tiger salamander. Responses to illumination
at the center of the...

...block (but enhanced and broadened) the light-evoked DeltaI(CI), although they decreased the chloride current induced by puff application of GABA or glutamate. The light response of narrow field amacrine cells...

16/3,K/3 (Item 3 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2008 Dialog. All rts. reserv.

13459524 PMID: 10632584

Arachidonic acid stimulates a novel cocaine-sensitive cation conductance associated with the human dopamine transporter.

Ingram S L; Amara S G
Vollum Institute and Howard Hughes Medical Institute, Oregon Health Sciences University, Portland, Oregon 97201, USA.

Journal of neuroscience - the official journal of the Society for Neuroscience (UNITED STATES) Jan 15 2000, 20 (2) p550-7, ISSN 1529-2401--Electronic Journal Code: 8102140

Contract/Grant No.: DAO7595; DA; United States NIDA

Publishing Model Print

Document type: Journal Article; Research Support, Non-U.S. Gov't; Research Support, U.S. Gov't, P.H.S.

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

... systems have been shown to modulate dopamine (DA) transport, however, the modulation of DAT-associated currents has not been studied in depth. Using the two-electrode voltage-clamp method to record from *Xenopus* oocytes expressing the human DAT, we examined the effects of arachidonic acid (AA) on membrane currents. AA (10-100...

16/3,K/4 (Item 4 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2008 Dialog. All rts. reserv.

12131945 PMID: 9120598

Characterization of a P-type calcium current in a crayfish motoneuron and its selective modulation by impulse activity.

Hong S J; Lnenicka G A
Department of Biological Sciences, University at Albany, State University of New York 12222, USA.

Journal of neurophysiology (UNITED STATES) Jan 1997, 77 (1) p76-85, ISSN 0022-3077--Print Journal Code: 0375404

Publishing Model Print

Document type: In Vitro; Journal Article; Research Support, U.S. Gov't, Non-P.H.S.

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Previous studies have demonstrated that the voltage-dependent Ca²⁺ current recorded from the cell body of the crayfish abdominal motoneuron, F3, undergoes a long-term reduction as a result of...

...45-60 min), there was a 43% reduction in the amplitude of the P-type current, but no significant changes in the non-P-type current amplitude. These results demonstrate that at least...

16/3,K/5 (Item 5 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2008 Dialog. All rts. reserv.

11840652 PMID: 8746429

Case-control study on maternal residential proximity to high voltage power lines and congenital anomalies in France.

Robert E; Harris J A; Robert O; Selvin S
Registry of Congenital Malformations, Institut Europeen des Genomutations, Lyon, France.

Paediatric and perinatal epidemiology (ENGLAND) Jan 1996, 10 (1)
p32-8, ISSN 0269-5022--Print Journal Code: 8709766

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

The literature indicates that exposure to electro - magnetic fields (EMF) may result in an increased incidence of cancer and spontaneous abortion. The aim of the present study was to determine whether living closer to high voltage power lines (HVPL) increased the risk of congenital anomalies. We studied residential exposure in any...

... the maternal residence at the time of birth of the child as a surrogate for EMF exposure. Using 100 metres from an HVPL as the cut-point between exposure and non-exposure to electro - magnetic fields produced by HVPL, yielded an odds ratio of 0.95 (95% (confidence interval) CI: 0...

16/3,K/6 (Item 6 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2008 Dialog. All rts. reserv.

11171694 PMID: 7816759

Iontophoresis of a model peptide across human skin in vitro: effects of iontophoresis protocol, pH, and ionic strength on peptide flux and skin impedance.

Craane-van Hinsberg W H; Bax L; Flinterman N H; Verhoef J; Junginger H E; Bodde H E

Leiden/Amsterdam Center for Drug Research, Division of Pharmaceutical Technology, Gorlaeus Laboratories, The Netherlands.

Pharmaceutical research (UNITED STATES) Sep 1994, 11 (9) p1296-300,
ISSN 0724-8741--Print Journal Code: 8406521

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

... inside the diffusion cells. The resistive and capacitative components

of the equivalent electrical circuit of human skin could be calculated by fitting the voltage response to a bi-exponential equation. The skin resistance prior to iontophoresis varied between 20...
... state resistance and capacitances did not vary significantly with frequency and duty cycle of the current pulse. There was no pH dependence of skin resistance at steady state. Between pH 4 and 10, the steady...

16/3,K/7 (Item 7 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2008 Dialog. All rts. reserv.

10511274 PMID: 7680940

Two types of high voltage-activated calcium channels in SH-SY5Y human neuroblastoma cells.

Reuveny E; Narahashi T

Department of Pharmacology, Northwestern University Medical School, Chicago, IL 60611.

Brain research (NETHERLANDS) Feb 12 1993, 603 (1) p64-73, ISSN 0006-8993--Print Journal Code: 0045503

Contract/Grant No.: AA07836; AA; United States NIAAA; NS14144; NS; United States NINDS

Publishing Model Print

Document type: Journal Article; Research Support, U.S. Gov't, P.H.S.

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Voltage -activated calcium channel currents were recorded from differentiated human neuroblastoma cells. SK-N-SH-SY5Y (SH-SY5Y) line, using patch-clamp techniques. Experimental solutions...

...K 8644 at 5 microM increased the mean open time of L-like single channel currents without changing single-channel conductance.

16/3,K/8 (Item 8 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2008 Dialog. All rts. reserv.

09685831 PMID: 1991460

Reproductive integrity of mammalian cells exposed to power frequency electromagnetic fields.

Livingston G K; Witt K L; Gandhi O P; Chatterjee I; Roti Roti J L

Department of Environmental Health, University of Cincinnati College of Medicine, Ohio 45267-0182.

Environmental and molecular mutagenesis (UNITED STATES) 1991, 17 (1) p49-58, ISSN 0893-6692--Print Journal Code: 8800109

Publishing Model Print

Document type: Journal Article; Research Support, Non-U.S. Gov't

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

... cytogenetic and cytotoxic endpoints to determine whether exposure to

power frequency (60 Hz) electromagnetic fields (EMF) interferes with normal cell growth and reproduction. An exposure chamber was built to apply variable...

... current densities of 3, 30, 300, and 3,000 microA/cm², simultaneously with a fixed magnetic field of 2.2 G to proliferating cells. The current densities were chosen to bracket those that may be induced in the human body by fields measured beneath high voltage (765 kV) power transmission lines. The electric current was applied through the media of a ...

... with the culture media by a salt bridge composed of a 1% agarose gel. The magnetic field was generated using two pairs of Helmholtz coils driven 73 degrees out of phase producing an elliptically polarized magnetic field 36 degrees out of phase with the electric field. The EMFs were measured and mapped...

16/3,K/9 (Item 9 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2008 Dialog. All rts. reserv.

09596802 PMID: 2148960

Replating improves whole cell voltage clamp recording of human fetal dorsal root ganglion neurons.

Caviedes P; Ault B; Rapoport S I

Laboratory of Neurosciences, National Institutes on Aging, National Institutes of Health, Bethesda, MD 20892.

Journal of neuroscience methods (NETHERLANDS) Oct 1990, 35 (1) p57-61, ISSN 0165-0270--Print Journal Code: 7905558

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Replating improves whole cell voltage clamp recording of human fetal dorsal root ganglion neurons.

...yielding round or oval cells with absent or short processes at 24 h in culture. Current clamp recordings demonstrated no difference in action potential parameters of the replated cells compared to control non-replated cells...

16/3,K/10 (Item 10 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2008 Dialog. All rts. reserv.

09199198 PMID: 2557442

Characterization of proton currents in neurones of the snail, *Lymnaea stagnalis*.

Byerly L; Suen Y

Department of Biological Sciences, University of Southern California, Los Angeles 90089-0371.

Journal of physiology (ENGLAND) Jun 1989, 413 p75-89, ISSN 0022-3751 --Print Journal Code: 0266262

Contract/Grant No.: NS00797; NS; United States NINDS; NS15341; NS; United States NINDS

Publishing Model Print

Document type: In Vitro; Journal Article; Research Support, U.S. Gov't, P.H.S.

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

... clamp techniques were used to study the voltage-dependent H⁺ currents in snail neurone cell bodies . 2. In whole cells the voltage -activated outward H⁺ current was measured 60 ms after stepping to +40 mV with an internal pH (pHi) of 5.9...

... 10.5 +/- 7.9 pA, respectively. 4. The current distribution patterns demonstrate that the H⁺ current does not flow through the delayed K⁺ current channels even though the two currents have similar voltage...

16/3,K/11 (Item 11 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2008 Dialog. All rts. reserv.

08926366 PMID: 2918347

Measurement of passive membrane parameters with whole-cell recording from neurons in the intact amphibian retina.

Coleman P A; Miller R F

Washington University School of Medicine, Department of Ophthalmology, St. Louis, Missouri 63110.

Journal of neurophysiology (UNITED STATES) Jan 1989, 61 (1) p218-30, ISSN 0022-3077--Print Journal Code: 0375404

Contract/Grant No.: EY-00844; EY; United States NEI; EY-07057; EY; United States NEI

Publishing Model Print

Document type: Journal Article; Research Support, U.S. Gov't, Non-P.H.S.; Research Support, U.S. Gov't, P.H.S.

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

... neurons in our sample was 68,000 omega.cm². 4. Analysis of the charging curve induced by a brief current pulse applied to the soma was used to analyze the average electrotonic length of dendrites...

... of a ganglion cell was calculated, using the experimentally obtained values of membrane resistance to compute decay of steady-state voltages along the dendritic tree . The calculations indicate that with the high membrane resistance values implied by this study, the...

16/3,K/12 (Item 12 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2008 Dialog. All rts. reserv.

07200934 PMID: 6669319

Voltage-dependent block by histrionicotoxin of the acetylcholine- induced current in an insect motoneurone cell body.

Sattelle D B; David J A

Neuroscience letters (NETHERLANDS) Dec 23 1983, 43 (1) p37-41,
ISSN 0304-3940--Print Journal Code: 7600130
Publishing Model Print
Document type: Journal Article; Research Support, Non-U.S. Gov't
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

Voltage-dependent block by histrionicotoxin of the acetylcholine- induced
current in an insect motoneurone cell body.
Acetylcholine (ACh)-induced currents were recorded from the voltage
-clamped cell body of the fast coxal depressor motoneurone of the
cockroach *Periplaneta americana*, at membrane potentials in...

16/3,K/13 (Item 13 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2008 Dialog. All rts. reserv.

06882748 PMID: 6961345
Pulpal effects of electrosurgery involving based and unbased cervical
amalgam restorations.
Spangberg L S; Hellden L; Robertson P B; Levy B M
Oral surgery, oral medicine, and oral pathology (UNITED STATES) Dec
1982, 54 (6) p678-85, ISSN 0030-4220--Print Journal Code: 0376406
Publishing Model Print
Document type: Comparative Study; Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

... with a fully rectified filtered unit under conditions of normal
clinical usage. Studies in extracted human teeth measured the voltage
potential generated between a reference probe in apical pulp tissue and an
activated electrosurgery electrode...

... and unbased restorations. Placement of a base reduced but did not
prevent passage of electrosurgical current, and no measurable potential
was associated with activated electrode contact on cementum or enamel.
Studies in three...

16/3,K/14 (Item 14 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2008 Dialog. All rts. reserv.

06819682 PMID: 6813968
Neuromagnetic localization of epileptiform spike activity in the human
brain.
Barth D S; Sutherling W; Engel J; Beatty J
Science (New York, N.Y.) (UNITED STATES) Nov 26 1982, 218 (4575)
p891-4, ISSN 0036-8075--Print Journal Code: 0404511
Contract/Grant No.: 78040-29867-5; United States PHS; RR07009; RR; United
States NCRR
Publishing Model Print
Document type: Journal Article; Research Support, U.S. Gov't, Non-P.H.S.;

Research Support, U.S. Gov't, P.H.S.

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Local paroxysmal discharges of epileptic tissue within the human brain, which may be electrically recorded as voltage spikes in the electroencephalogram, also generate extracranial magnetic fields. These fields were assessed by means of recently developed neuromagnetometric techniques. Surface measurements of magnetic spike field strength in the region of the focus appear sufficient to establish the location, depth, orientation...

16/3,K/15 (Item 1 from file: 73)

DIALOG(R)File 73:EMBASE

(c) 2008 Elsevier B.V. All rts. reserv.

0075977088 EMBASE No: 1995017171

Multiple second messenger routes enhance two high-voltage-activated calcium currents in molluscan neuroendocrine cells

Dreijer A.M.C.; Kits K.S.

Graduate School of Neurosciences of Amsterdam, Neuroscience Research Institute, Vrije Universiteit, De Boelelaan 1087, 1081 HV Amsterdam, Netherlands

CORRESP. AUTHOR: Kits K.S.

CORRESP. AUTHOR AFFIL: Graduate School of Neurosciences, Vrije Universiteit, Faculty of Biology, De Boelelaan 1087, 1081 HV Amsterdam, Netherlands

Neuroscience (NEUROSCIENCE) (United Kingdom) February 2, 1995, 64/3 (787-800)

CODEN: NRSCD ISSN: 03064522

DOI: 10.1016/0306-4522(94)00446-C

DOCUMENT TYPE: Journal; Article RECORD TYPE: Abstract

LANGUAGE: English SUMMARY LANGUAGE: English

...Both agents enhanced the rapidly inactivating current and, to a lesser degree, the slowly inactivating current, without affecting their voltage-dependence. The cyclic AMP-dependent protein kinase inhibitor, Walsh inhibitor peptide, antagonized...

MEDICAL DESCRIPTORS:

animal tissue; article; controlled study; intracellular recording ; nonhuman; priority journal; snail; voltage clamp

16/3,K/16 (Item 2 from file: 73)

DIALOG(R)File 73:EMBASE

(c) 2008 Elsevier B.V. All rts. reserv.

0075286331 EMBASE No: 1993065873

Two types of high voltage-activated calcium channels in SH-SY5Y human neuroblastoma cells

Reuveny E.; Narahashi T.

Department of Pharmacology, Northwestern Univ. Medical School, 303 East Chicago Avenue, Chicago, IL 60611, United States

CORRESP. AUTHOR: Narahashi T.
CORRESP. AUTHOR AFFIL: Department of Pharmacology, Northwestern Univ.
Medical School, 303 East Chicago Avenue, Chicago, IL 60611, United States

Brain Research (BRAIN RES.) (Netherlands) March 16, 1993, 603/1
(64-73)

CODEN: BRREA ISSN: 00068993

DOI: 10.1016/0006-8993(93)91300-H

DOCUMENT TYPE: Journal; Article RECORD TYPE: Abstract

LANGUAGE: English SUMMARY LANGUAGE: English

Voltage -activated calcium channel currents were recorded from
differentiated human neuroblastoma cells, SK-N-SH-SY5Y (SH-SY5Y) line,
using patch-clamp techniques. Experimental solutions...

...K 8644 at 5 μ M increased the mean open time of L-like single channel
currents without changing single-channel conductance.

16/3,K/17 (Item 3 from file: 73)

DIALOG(R)File 73:EMBASE

(c) 2008 Elsevier B.V. All rts. reserv.

0075083447 EMBASE No: 1992235120

Hand movements above the unshielded tail of a shielded rat induces
differences in voltage inside the animal

Nordenstrom B.E.W.

Department of Diagnostic Radiology, Karolinska Hospital, P.O. Box 60500,
S-104 01 Stockholm, Sweden

CORRESP. AUTHOR: Nordenstrom B.E.W.

CORRESP. AUTHOR AFFIL: Department of Diagnostic Radiology, Karolinska
Hospital, P.O. Box 60500, S-104 01 Stockholm, Sweden

American Journal of Acupuncture (AM. J. ACUPUNCT.) (United States)

August 14, 1992, 20/2 (157-163)

CODEN: AJAPB ISSN: 00913960

DOCUMENT TYPE: Journal; Article RECORD TYPE: Abstract

LANGUAGE: English SUMMARY LANGUAGE: English

...inside the electrically shielded body of the animal. The direction of
movement of the external EMF , relative to the position of the vessels,
determines how the voltage gradients in the body are altered, and is
accompanied by current flow in 'biologically closed electric circuits'
(BCEC).

16/3,K/18 (Item 4 from file: 73)

DIALOG(R)File 73:EMBASE

(c) 2008 Elsevier B.V. All rts. reserv.

0074160464 EMBASE No: 1990054463

Ethanol inhibits NMDA-activated current but does not alter
GABA-activated current in an isolated adult mammalian neuron

White G.; Lovinger D.M.; Weight F.F.

Section of Electrophysiology, NIAA, 12501 Washington Avenue, Rockville,
MD 20852, United States

CORRESP. AUTHOR: White G.

CORRESP. AUTHOR AFFIL: Section of Electrophysiology, NIAA, 12501
Washington Avenue, Rockville, MD 20852, United States

Brain Research (BRAIN RES.) (Netherlands) March 22, 1990, 507/2
(332-336)

CODEN: BRREA ISSN: 00068993

DOI: 10.1016/0006-8993(90)90292-J

DOCUMENT TYPE: Journal; Article RECORD TYPE: Abstract

LANGUAGE: English SUMMARY LANGUAGE: English

Ethanol inhibits NMDA-activated current but does not alter
GABA-activated current in an isolated adult mammalian neuron
MEDICAL DESCRIPTORS:

animal cell; article; intracellular recording ; male; nonhuman; priority
journal; rat; voltage clamp

16/3,K/19 (Item 5 from file: 73)

DIALOG(R)File 73:EMBASE

(c) 2008 Elsevier B.V. All rts. reserv.

0074122878 EMBASE No: 1990016877

Influences of external Ca SUP 2+ on the GABA- induced chloride current
and the efficacy of diazepam in internally perfused frog sensory neurons

Akaike N.; Oyama Y.; Yakushiji T.

Department of Neurophysiology, Tohoku Univ. School of Med., Sendai 980,
Japan

CORRESP. AUTHOR: Akaike N.

CORRESP. AUTHOR AFFIL: Department of Neurophysiology, Tohoku Univ. School
of Med., Sendai 980, Japan

Brain Research (BRAIN RES.) (Netherlands) December 1, 1989, 504/2
(293-296)

CODEN: BRREA ISSN: 00068993

DOI: 10.1016/0006-8993(89)91371-1

DOCUMENT TYPE: Journal; Article RECORD TYPE: Abstract

LANGUAGE: English SUMMARY LANGUAGE: English

Influences of external Ca SUP 2+ on the GABA- induced chloride current
and the efficacy of diazepam in internally perfused frog sensory neurons

The effects of extracellular Ca SUP 2+ on the gamma-aminobutyric acid
(GABA)- induced Cl SUP - current and the efficacy of diazepam in the
facilitation of GABA response were studied in frog...

MEDICAL DESCRIPTORS:

animal cell; article; frog; intracellular recording ; nonhuman; priority
journal; voltage clamp

16/3,K/20 (Item 6 from file: 73)

DIALOG(R)File 73:EMBASE

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0073982740 EMBASE No: 1989163193

The A-type potassium current: Methoxybenzenes increase the rate of
inactivation in snail neurons

Erdelyi L.; Such G.
Department of Comparative Physiology, Attila Jozsef University, 6726
Szeged, Hungary
CORRESP. AUTHOR AFFIL: Department of Comparative Physiology, Attila
Jozsef University, 6726 Szeged, Hungary

Neuroscience Letters (NEUROSCI. LETT.) (Netherlands) July 21, 1989,
102/1 (44-49)
CODEN: NELED ISSN: 03043940
DOI: 10.1016/0304-3940(89)90305-4
DOCUMENT TYPE: Journal; Article RECORD TYPE: Abstract
LANGUAGE: English SUMMARY LANGUAGE: English

...2 mM). The potential-dependence of the steady-state activation or
inactivation of the A- current was not influenced by anisole. An
analysis of the Hill plot of anisole action on the time...

MEDICAL DESCRIPTORS:

animal cell; article; Helix pomatia; intracellular recording ;
invertebrate; nonhuman; priority journal; voltage clamp

16/3,K/21 (Item 7 from file: 73)
DIALOG(R)File 73:EMBASE
(c) 2008 Elsevier B.V. All rts. reserv.

0073947771 EMBASE No: 1989128221
Atrial natriuretic factor suppresses M- current in frog but not in rat
sympathetic neurones
Pant K.K.; Smith P.A.
Department of Pharmacology, University of Alberta, Edmonton, Alta. T6G
2H7, Canada
CORRESP. AUTHOR AFFIL: Department of Pharmacology, University of Alberta,
Edmonton, Alta. T6G 2H7, Canada

Neuroscience Letters (NEUROSCI. LETT.) (Netherlands) June 8, 1989,
100/1-3 (243-248)
CODEN: NELED ISSN: 03043940
DOCUMENT TYPE: Journal; Article RECORD TYPE: Abstract
LANGUAGE: English SUMMARY LANGUAGE: English

Atrial natriuretic factor suppresses M- current in frog but not in rat
sympathetic neurones

MEDICAL DESCRIPTORS:

animal cell; frog; intracellular recording ; male; nonhuman; priority
journal; rat; voltage clamp

16/3,K/22 (Item 8 from file: 73)
DIALOG(R)File 73:EMBASE
(c) 2008 Elsevier B.V. All rts. reserv.

0073883034 EMBASE No: 1989063447
Kinetic analysis of acetylcholine- induced current in isolated frog
sympathetic ganglion cells
Akaike N.; Tokutomi N.; Kijima H.
Department of Physiology, Faculty of Medicine, Kyushu University 60,

Fukuoka 812, Japan

CORRESP. AUTHOR AFFIL: Department of Physiology, Faculty of Medicine,
Kyushu University 60, Fukuoka 812, Japan

Journal of Neurophysiology (J. NEUROPHYSIOL.) (United States) March
20, 1989, 61/2 (283-301)

CODEN: JONEA ISSN: 00223077

DOCUMENT TYPE: Journal; Article RECORD TYPE: Abstract

LANGUAGE: English SUMMARY LANGUAGE: English

Kinetic analysis of acetylcholine- induced current in isolated frog
sympathetic ganglion cells

...of the external solution within a few milliseconds. The dose-response
curve for the peak current induced by ACh showed a sigmoidal increase,
in which the apparent dissociation constant $K(d)$ and...

...no difference between the dose-response curves of ACh- and
nicotine-induced currents. The ACh- induced current was suppressed in a
competitive manner by the nicotinic antagonists, d-tubocurarine and
hexamethonium, but...

...activation phase before attaining exponential increase of activation
process. The activation phase of the ACh- induced current consisted of a
double exponential with fast (τ_{af}) and slow (τ_{as}) time constants...

...show significant voltage-dependence. At low concentrations of ACh, the
slow component of the ACh- induced current was dominant in the total
current. The current was dominated by the fast component at...

MEDICAL DESCRIPTORS:

animal cell; frog; intracellular recording ; nonhuman; priority journal;
voltage clamp

16/3,K/23 (Item 9 from file: 73)

DIALOG(R)File 73:EMBASE

(c) 2008 Elsevier B.V. All rts. reserv.

0073883030 EMBASE No: 1989063443

Long-lasting reduction of excitability by a sodium-dependent potassium
current in cat neocortical neurons

Schwindt P.C.; Spain W.J.; Crill W.E.

Department of Physiology and Biophysics, University of Washington School
of Medicine, Seattle, WA 98195, United States

CORRESP. AUTHOR AFFIL: Department of Physiology and Biophysics,
University of Washington School of Medicine, Seattle, WA 98195, United
States

Journal of Neurophysiology (J. NEUROPHYSIOL.) (United States) March
20, 1989, 61/2 (233-244)

CODEN: JONEA ISSN: 00223077

DOCUMENT TYPE: Journal; Article RECORD TYPE: Abstract

LANGUAGE: English SUMMARY LANGUAGE: English

...sAHP in either normal or Ca SUP 2+-free perfusate. The Na SUP
+-dependent outward current does not appear to be caused by a rise of
[Ca SUP 2+](i) triggered by Na...

MEDICAL DESCRIPTORS:

animal cell; cat; intracellular recording ; nonhuman; priority journal;
voltage clamp

16/3,K/24 (Item 10 from file: 73)

DIALOG(R)File 73:EMBASE

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0073845004 EMBASE No: 1989025416

Modulation of calcium current by calmodulin antagonists

Doroshenko P.A.; Kostyuk P.G.; Luk'yanetz E.A.

A.A. Bogomoletz Institute of Physiology, Kiev 24, U.S.S.R.

CORRESP. AUTHOR AFFIL: A.A. Bogomoletz Institute of Physiology, Kiev 24,
U.S.S.R.

Neuroscience (NEUROSCIENCE) (United Kingdom) December 1, 1988, 27/3
(1073-1080)

CODEN: NRSCD ISSN: 03064522

DOI: 10.1016/0306-4522(88)90211-4

DOCUMENT TYPE: Journal; Article RECORD TYPE: Abstract

LANGUAGE: English SUMMARY LANGUAGE: English

...calcium channel, with high and low binding affinity (responsible for
enhancement and inhibition of the current , respectively). The interaction
induces changes in binding of penetrating cations in the channel, thereby
producing modulation of the calcium...

MEDICAL DESCRIPTORS:

animal cell; intracellular recording ; invertebrate; nonhuman; priority
journal; snail; voltage clamp

16/3,K/25 (Item 11 from file: 73)

DIALOG(R)File 73:EMBASE

(c) 2008 Elsevier B.V. All rts. reserv.

0073824827 EMBASE No: 1989005238

Norepinephrine inhibits calcium action potential through alpha SUB

2-adrenoceptors in rabbit vesical parasympathetic neurons

Akasu T.; Tsurusaki M.; Nishimura T.; Tokimasa T.

Department of Physiology, Kurume University School of Medicine, Kurume

830, Japan

CORRESP. AUTHOR AFFIL: Department of Physiology, Kurume University School
of Medicine, Kurume 830, Japan

Neuroscience Research (NEUROSCI. RES.) (Ireland) December 1, 1988, 6/2
(186-190)

CODEN: NERAD ISSN: 01680102

DOI: 10.1016/0168-0102(88)90022-3

DOCUMENT TYPE: Journal; Article RECORD TYPE: Abstract

LANGUAGE: English SUMMARY LANGUAGE: English

...elicited in the presence of tetrodotoxin and tetraethylammonium.
UK14304 suppressed the inward Ca SUP 2+ current induced by depolarizing
step command under the voltage-clamp condition. These inhibitory actions
were antagonized by...

MEDICAL DESCRIPTORS:

animal cell; intracellular recording ; male; nonhuman; rabbit; voltage clamp

16/3,K/26 (Item 12 from file: 73)

DIALOG(R)File 73:EMBASE

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0073252913 EMBASE No: 1986061947

Impedance-computed tomography algorithm and system

Wexler A.; Fry B.; Neuman M.R.

University of Manitoba, Department of Electrical Engineering, Winnipeg, Manitoba R3T 2N2, Canada

CORRESP. AUTHOR AFFIL: University of Manitoba, Department of Electrical Engineering, Winnipeg, Manitoba R3T 2N2, Canada

Applied Optics (APPL. OPT.) (United States) December 1, 1985, 24/23 (3985-3992)

CODEN: APOPA ISSN: 00036935

DOCUMENT TYPE: Journal RECORD TYPE: Abstract

LANGUAGE: English

...differing impedance, are described. The technique involves impressing a number of excitation patterns on the body and measuring the resulting voltages at a number of sites. Because voltages need not be measured at current -injection sites, contact resistance problems are ameliorated. This impedance-computed tomography reconstruction process employs the...

16/3,K/27 (Item 13 from file: 73)

DIALOG(R)File 73:EMBASE

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0072536001 EMBASE No: 1983021469

ELF dosage in ellipsoidal models of man due to high voltage transmission lines

Hart F.X.; Marino A.A.

Dep. Phys., Univ. South, Sewanee, TN 37375, United States

CORRESP. AUTHOR AFFIL: Dep. Phys., Univ. South, Sewanee, TN 37375, United States

Journal of Bioelectricity (J. BIOELECTR.) (United States) December 1, 1982, 1/1 (129-154)

CODEN: JOUBD ISSN: 0730823X

DOCUMENT TYPE: Journal RECORD TYPE: Abstract

LANGUAGE: English

The fields, flux, and power density produced inside an ellipsoidal model of man by overhead high- voltage transmission lines have been calculated . The values depend strongly on the conductivity and the shape of the ellipsoid and, in...

MEDICAL DESCRIPTORS:

*cardiovascular system; *electromagnetic radiation; * magnetic field ; * nervous system

16/3,K/28 (Item 1 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2008 The Thomson Corporation. All rts. reserv.

17290254 BIOSIS NO.: 200300248973
Passive normalization of synaptic integration influenced by dendritic architecture.
AUTHOR: Jaffe David B (Reprint); Carnevale Nicholas T
AUTHOR ADDRESS: Division of Life Sciences, University of Texas at San Antonio, 6900 North Loop 1604 West, San Antonio, TX, 78249, USA**USA
JOURNAL: Journal of Neurophysiology (Bethesda) 82 (6): p3268-3285 Dec. 1999 1999
MEDIUM: print
ISSN: 0022-3077 _(ISSN print)
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

...ABSTRACT: Third, compartmental models based on morphological reconstructions of five different neuron types were used to calculate Z_c , input impedance (Z_N), and voltage transfer throughout the dendritic tree. For all neurons, there was no significant variation of Z_c with location within higher-order...

...a phenomenon that we call "passive synaptic normalization" to underscore the fact that it does not require active currents. We conclude that the presence of a long primary dendrite, as in CA1 or neocortical...

16/3,K/29 (Item 2 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2008 The Thomson Corporation. All rts. reserv.

14411738 BIOSIS NO.: 199800205985
Effects of corona discharge and high voltage on the growth of body mass and tumors in rats
AUTHOR: Yagi Michiko (Reprint); Yamaguchi Torao
AUTHOR ADDRESS: Med. and Dent. Univ., Coll. Liberal Arts and Sci., 2-8-30 Kounodai, Ichikawa 272, Japan**Japan
JOURNAL: Japanese Journal of Electrophoresis 42 (1): p35-47 Feb., 1998 1998
MEDIUM: print
ISSN: 0031-9082
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

...ABSTRACT: in rat exposed to negative and positive corona discharges (e- and e+-ions) and high voltage electric fields (HVE) to determine any influence on body mass and tumor growth of electric fields, voltage, currents and electro magnetic fields. Tumor growth was evaluated by histological findings and analysis of the logistic curves (growth curve ...

16/3,K/30 (Item 3 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2008 The Thomson Corporation. All rts. reserv.

10836579 BIOSIS NO.: 199192082350
INWARDLY RECTIFYING POTASSIUM CURRENT IN MAMMALIAN LENS EPITHELIAL
CELLS
AUTHOR: COOPER K (Reprint); RAE J L; DEWEY J
AUTHOR ADDRESS: RM 934, GUGGENHEIM BLDG, MAYO FOUNDATION, ROCHESTER, MINN
55905, USA**USA
JOURNAL: American Journal of Physiology 261 (1 PART 1): pC115-C123 1991
ISSN: 0002-9513
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

...ABSTRACT: current-voltage relationship is linear in the inward
direction. In contrast to the macroscopic case, no outward current
was measurable. The inward rectifier in lens has the necessary properties
to be involved in...

DESCRIPTORS: RABBIT HUMAN MOUSE RAT EPITHELIAL TRANSPORT CHANNEL-
VOLTAGE
RELATIONSHIP WHOLE CELL RECORDING PATCH CLAMP TECHNIQUE

16/3,K/31 (Item 1 from file: 144)
DIALOG(R)File 144:Pascal
(c) 2008 INIST/CNRS. All rts. reserv.

12458408 PASCAL No.: 96-0120164
Magnetic field -induced currents in the human body in proximity of
power lines. Discussion
STUCHLY M A; ZHAO S; DENO D comment; STUCHLY M A comment
Univ. Victoria, dep. electrical computer eng., Victoria BC V8W 3P6,
Canada
IEEE/Power Engineering Society PES. Winter meeting (New York NY USA)
1995-01-29
Journal: IEEE transactions on power delivery, 1996, 11 (1) 102-109
Language: English

Magnetic field -induced currents in the human body in proximity of
power lines. Discussion

Electric currents induced due to 60 Hz magnetic fields in a human
body placed in a close proximity of various high voltage transmission
lines are computed . A realistic model of the human body from the
anatomical and electrical point of view with resolution of 1.3 cm...

... 5 m away from closest conductors). A good correlation can be seen
between the computed magnetic field in the location of the human body
and the induced current densities. The induced currents computed here
and estimated from measured magnetic fields in various power line
environments are compared to those for typical home and office exposures...

English Descriptors: Power transmission line; Magnetic field effect;
Human; Induced current ; Current density; Analysis method; Modeling;
Electrical impedance

16/3,K/32 (Item 2 from file: 144)
DIALOG(R)File 144:Pascal
(c) 2008 INIST/CNRS. All rts. reserv.

09262182 PASCAL No.: 91-0052557
Effects of geomagnetically induced currents in the B.C. hydro 500 kV
system
BOTELER D H; SHIER R M; WATANABE T; HORITA R E
Victoria univ. Wellington, Wellington, New Zealand
IEEE/PES summer meeting (Portland OR) 1988
Journal: IEEE transactions on power delivery, 1989, 4 (1) 818-823
Language: English

English Descriptors: Hydroelectric power plant ; Extrahigh voltage ;
Measurement ; Induced current ; Harmonic; Geomagnetic disturbance;
Electric field; Magnetization curve; Partial saturation; Reactive power;
Electric transformer

16/3,K/33 (Item 3 from file: 144)
DIALOG(R)File 144:Pascal
(c) 2008 INIST/CNRS. All rts. reserv.

02570848 PASCAL No.: 80-0206366
A REALISTIC-CASE ANALYSIS OF ELECTRIC-FIELD INDUCTION ON VEHICLES NEAR
AC
TRANSMISSION LINES
REILLY J P; CWIKLEWSKI M
JOHNS HOPKINS UNIV. APPL. PHYS. LAB.,LAUREL MD,USA
CANADIAN COMMUNICATIONS AND POWER CONFERENCE/1978-10-18/MONTREAL
1978 192-195
Publisher: NEW YORK: IEEE
Language: ENGLISH

English Descriptors: FIELD; ELECTRICAL FIELD; INDUCED FIELD; ALTERNATING
CURRENT ; EXPERIMENTAL STUDY; ELECTROMAGNETIC INDUCTION; OVERHEAD LINE;
POWER TRANSMISSION LINE; MEASUREMENT ; PERSON PROTECTION ; ELECTRICAL
NETWORK; EXTRAHIGH VOLTAGE ; ROAD VEHICLE

16/3,K/34 (Item 4 from file: 144)
DIALOG(R)File 144:Pascal
(c) 2008 INIST/CNRS. All rts. reserv.

01804241 PASCAL No.: 78-0147755
CURRENTS INDUCED IN THE HUMAN BODY BY HIGH VOLTAGE TRANSMISSION
LINE ELECTRIC FIELD. MEASUREMENT AND CALCULATION OF DISTRIBUTION AND
DOSE.
DENO D W
GENERAL ELECTRIC CO., PITTSFIELD,MASS.
Journal: I.E.E.E. TRANS. POWER APPAR. SYST., 1977, 96 (5) 1517-1527
Language: ENGLISH

CURRENTS INDUCED IN THE HUMAN BODY BY HIGH VOLTAGE TRANSMISSION

LINE ELECTRIC FIELD. MEASUREMENT AND CALCULATION OF DISTRIBUTION AND DOSE.

English Descriptors: FIELD; ELECTRICAL FIELD; HIGH FIELD; INDUCED CURRENT ; HIGH VOLTAGE; ELECTROSTATIC INDUCTION; OVERHEAD LINE; POWER TRANSMISSION LINE; CALCULATING METHOD; PHYSIOLOGY; SAFETY

16/3,K/35 (Item 1 from file: 24)
DIALOG(R)File 24:CSA Life Sciences Abstracts
(c) 2008 CSA. All rts. reserv.

0002125569 IP ACCESSION NO: 4743384
14AA-Sensitive Chloride Current Contributes to the Center Light Responses of Bipolar Cells in the Tiger Salamander Retina

Gao, F; Maple, BR; Wu, SM
Cullen Eye Institute, Baylor College of Medicine, Houston, Texas 77030, USA

Journal of Neurophysiology, v 83, n 6, p 3473-3482, June 2000
PUBLICATION DATE: 2000

DOCUMENT TYPE: Journal Article
RECORD TYPE: Abstract
LANGUAGE: English
SUMMARY LANGUAGE: English
ISSN: 0022-3077
ASFA NO: CS0103763
FILE SEGMENT: CSA Neurosciences Abstracts

ABSTRACT:

Light-evoked currents in depolarizing and hyperpolarizing bipolar cells (DBC's and HBC's) were recorded under voltage-clamp conditions in living retinal slices of the larval tiger salamander. Responses to illumination at the center of the...

...enhanced and broadened) the light-evoked Delta I sub(C1), although they decreased the chloride current induced by puff application of GABA or glutamate. The light response of narrow field amacrine cells...

16/3,K/36 (Item 2 from file: 24)
DIALOG(R)File 24:CSA Life Sciences Abstracts
(c) 2008 CSA. All rts. reserv.

0000225222 IP ACCESSION NO: 610950
Electrogenic ion transport and bioelectric excitation, a quantitative theory of their relationship. Part II. Voltage clamp currents of the first generation equations.

Lowenhaupt, B; Gifford, PK; Astbury, JC
Biol. Dep., Edinboro State Coll. Edinboro, PA 16444, USA

Bioelectrochemistry and Bioenergetics, v 10, n 1, p 109-118, 1983
ADDL. SOURCE INFO: Bioelectrochemistry and Bioenergetics [BIOELECTROCHEM. BIOENERGET.], vol. 10, no. 1, pp. 109-118, 1983

PUBLICATION DATE: 1983

DOCUMENT TYPE: Journal Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

ISSN: 0302-4598

FILE SEGMENT: Biological Membranes (Biochemistry Abstracts 1)

ABSTRACT:

... the value of any constant. Calculated membrane current densities resemble observed membrane current densities of living , electrically excitable, voltage clamped preparations. The calculated and observed currents are not quite identical, however, and the discussion considers possible explanations for the differences. The calculated sodium...

16/3,K/37 (Item 1 from file: 23)

DIALOG(R)File 23:CSA Technology Research Database

(c) 2008 CSA. All rts. reserv.

0007491272 IP ACCESSION NO: 200609-70-186674

Magnetic field -induced currents in the human body in proximity of power lines

Stuchly, M A; Zhao, Shengkai

IEEE Transactions on Power Delivery, v 11, n 1, p 102-109, Jan. 1996

PUBLICATION DATE: 1996

PUBLISHER: Institute of Electrical and Electronics Engineers, Inc., 445

Hoes Ln, Piscataway, NJ, 08854-1331

COUNTRY OF PUBLICATION: USA

PUBLISHER URL: <http://iee.org>

PUBLISHER EMAIL: inspec@iee.org

DOCUMENT TYPE: Journal Article

RECORD TYPE: Abstract

LANGUAGE: English

ISSN: 0885-8977

FILE SEGMENT: Electronics & Communications Abstracts

Magnetic field -induced currents in the human body in proximity of power lines

ABSTRACT:

Electric currents induced due to 60 Hz magnetic fields in a human body placed in close proximity to various high voltage transmission lines are computed . A realistic model of the human body from the anatomical and electrical point of view with resolution of 1.3 cm...

...5 m away from closest conductors). A good correlation can be seen between the computed magnetic field in the location of the human body and the induced current densities. The induced currents computed here and estimated from measured magnetic fields in various power line environments are compared to those for typical home and office exposures...

DESCRIPTORS: Human body; Computation; Magnetic fields ; Proximity;
Transmission lines; High voltages; Power lines; Current density; Position
(location); Exposure; Electric current; Conductors...

16/3,K/38 (Item 2 from file: 23)
DIALOG(R)File 23:CSA Technology Research Database
(c) 2008 CSA. All rts. reserv.

0007442523 IP ACCESSION NO: 200609-16-065599
Fibrillation induced at powerline current levels

Chilbert, M A; Swiontek, T; Myklebust, J B; Prieto, T E; Sances, A , Jr;
Leffingwell, C; Henderson, J D , Jr

IEEE Transactions on Biomedical Engineering, v 36, n 8, p 864-869, Aug.
1989
PUBLICATION DATE: 1989

PUBLISHER: Institute of Electrical and Electronics Engineers, Inc., 445 Hoes
Ln, Piscataway, NJ, 08854-1331
COUNTRY OF PUBLICATION: UK
PUBLISHER URL: <http://iee.org.uk>
PUBLISHER EMAIL: inspec@ieee.org

DOCUMENT TYPE: Journal Article
RECORD TYPE: Abstract
LANGUAGE: English
ISSN: 0018-9294
ELECTRONIC ISSN: NO
FILE SEGMENT: Solid State & Superconductivity Abstracts

Fibrillation induced at powerline current levels

ABSTRACT:
... 50% of the current application during the $< e_1 > T < /e_1 >$ -wave
caused fibrillation. The total body resistance of the hogs was measured
at the high voltages and currents. The average resistance for 90 current
applications was 284 Ω . Trends in the...

16/3,K/39 (Item 3 from file: 23)
DIALOG(R)File 23:CSA Technology Research Database
(c) 2008 CSA. All rts. reserv.

0007411030 IP ACCESSION NO: 200609-70-195018
A computer based data acquisition system for teaching transients and
switching phenomena and performing research on digital protection

Girgis, A A; Guy, B D

IEEE Transactions on Power Systems, v 3, n 3, p 1361-1368, Aug. 1988
PUBLICATION DATE: 1988

PUBLISHER: Institute of Electrical and Electronics Engineers, Inc., 445
Hoes Ln, Piscataway, NJ, 08854-1331

COUNTRY OF PUBLICATION: USA
PUBLISHER URL: <http://iee.org>
PUBLISHER EMAIL: inspec@iee.org

DOCUMENT TYPE: Journal Article
RECORD TYPE: Abstract
LANGUAGE: English
ISSN: 0885-8950
FILE SEGMENT: Electronics & Communications Abstracts
ABSTRACT:

... personal computer to analyze the data is presented. An example of qualitative study for inrush current and fault- induced transients in a power transformer is shown. A mathematical model for the inrush current in ...

DESCRIPTORS: Mathematical models; Education; Teaching; Digital; Transformers; Inrush current; Switching; Electric potential; Voltage ; Sampling; Personal computers; Computer simulation; Waveforms; Switching circuits; Design engineering

16/3,K/40 (Item 4 from file: 23)
DIALOG(R)File 23:CSA Technology Research Database
(c) 2008 CSA. All rts. reserv.

0004968232 IP ACCESSION NO: 2001-51-000615
Laboratory instrumentation and techniques for characterizing multi-junction solar cells for space applications [Abstract Only]

Woodyard, James R
Wayne State Univ., Detroit, MI.
PUBLICATION DATE: 1995

CONFERENCE:
In NASA. Lewis Research Center, Proceedings of the 14th Space Photovoltaic Research and Technology Conference (SPRAT 14) p 25 (SEE N96-15042 03-20)

DOCUMENT TYPE: Conference Paper
RECORD TYPE: Abstract
LANGUAGE: English
FILE SEGMENT: Mechanical & Transportation Engineering Abstracts

ABSTRACT:
... beam and determining the cell short-circuit current assuming linearity of the quantum efficiency. Additionally, current -voltage characteristics can not be calculated from measurements under non-AMO light sources using spectral- correction methods. There are...

...is described which consists of a standard lamp, spectral radiometer, dual-source solar simulator, and personal computer based current-voltage and quantum efficiency equipment. The spectral radiometer is calibrated regularly using the tungsten-halogen standard...

16/3,K/41 (Item 1 from file: 2)
DIALOG(R)File 2:INSPEC

(c) 2008 Institution of Electrical Engineers. All rts. reserv.

07693494 INSPEC Abstract Number: A2000-20-8725D-001

Title: Noise measurements in bilayer lipid membranes during electroporation

Author(s): Ridi, A.; Scalas, E.; Gliozzi, A.

Author Affiliation: Ist. Nazionale per la Fisica della Materia, Genova Univ., Italy

Journal: European Physical Journal E vol.2, no.2 p.161-8

Publisher: EDP Sciences; Springer-Verlag,

Publication Date: June 2000 Country of Publication: France

ISSN: 1292-8941

SICI: 1292-8941(200006)2:2L.161:NMBL;1-1

Material Identity Number: H450-2000-005

Language: English

Subfile: A

Copyright 2000, FIZ Karlsruhe

...Abstract: theory are used in order to explain the phenomenon on long time scale. Indeed, the current -clamp condition induces a feedback mechanism on the pore formation and therefore on the macroscopic conductance. Voltage fluctuations can thus be recorded . These fluctuations are nonstationary long- living and have a flicker power spectrum over nearly four decades of frequency between about 10...

16/3,K/42 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2008 Institution of Electrical Engineers. All rts. reserv.

06311946 INSPEC Abstract Number: A9616-8750-001, B9608-8130F-009

Title: Calculation of the induced voltage and current for a human and a car close to 765 kV AC double circuit transmission line

Author(s): Suk-Won Min; Eung-Sik Kim; Sung-Ho Myoung; Byoung-Yoon Lee; Jong-Keun Park

Journal: Transactions of the Korean Institute of Electrical Engineers vol.45, no.2 p.301-9

Publisher: Korean Inst. Electr. Eng,

Publication Date: Feb. 1996 Country of Publication: South Korea

CODEN: CHNODD ISSN: 0254-4172

SICI: 0254-4172(199602)45:2L.301:CIVC;1-C

Material Identity Number: C896-96006

Language: Korean

Subfile: A B

Copyright 1996, IEE

Title: Calculation of the induced voltage and current for a human and a car close to 765 kV AC double circuit transmission line

...Abstract: the electric field effect near 765 kV AC double transmission line with numerical data. The induced voltage and current of a human and car under two kinds of phase arrangement are calculated when each...

... of the low-reactance and superposition phase arrangement are compared, it is proved that the induced voltage and current of the former are about 30 % smaller than that of the latter. The induced currents...

... which is about 10 % less than that of the American National Standard

Code. Also the induced voltage and current of dead lines by other live lines are calculated. Finally the effective number and position...
...Identifiers: induced current ;

16/3,K/43 (Item 3 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2008 Institution of Electrical Engineers. All rts. reserv.

05051591 INSPEC Abstract Number: B9202-8120C-006
Title: Calculation of transients with the aid of simplified equations for elements of electrical systems
Author(s): Dzhagarov, N.F.
Journal: Elektrichestvo no.9 p.67-9
Publication Date: Sept. 1991 Country of Publication: USSR
CODEN: ELEKA3 ISSN: 0013-5380
Language: Russian
Subfile: B

...Abstract: at every junction in the network in terms of the voltage at the preceding junction, excluding the line currents. Each element is described by its own set of differential equations; they are consolidated in...

... for the lines, an algorithm for the junction voltages is proposed; in this case, the voltages are computed with the aid of tree branch equations for the network graph. Therefore, the overall computational algorithm does not involve the...

16/3,K/44 (Item 4 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2008 Institution of Electrical Engineers. All rts. reserv.

04456363 INSPEC Abstract Number: B89060152
Title: The sensitivity of automatic leakage-current cut-outs
Author(s): Poluektov, V.I.
Journal: Izvestiya Vysshikh Uchebnykh Zavedenii, Energetika no.5 p. 52-4
Publication Date: May 1989 Country of Publication: Byelorussian SSR, USSR
CODEN: IVZEAY ISSN: 0579-2983
Language: Russian
Subfile: B

...Abstract: bounds of a danger zone, within the limits of which the resistance of the external current -shock circuit does not provide the necessary level of electrical safety. The probability of falling into a hazardous zone...

... measure is the covering of the outside premises of the installation by rubble. In the analysis of electrical safety conditions, voltage nonlinear models for a human body can be used to refine the bounds of dead zones for automatic current cut-outs.

16/3,K/45 (Item 5 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2008 Institution of Electrical Engineers. All rts. reserv.

04338686 INSPEC Abstract Number: A89038265, B89027474
Title: Calculation of induced voltage and current for a human close to an AC transmission line
Author(s): Chow, Y.L.; Srivastava, K.D.
Author Affiliation: Dept. of Electr. Eng., Waterloo Univ., Ont., Canada
Conference Title: Proceedings of the Fifth International Symposium on High Voltage Engineering p.33.19/1-4 vol.2
Publisher: Tech. Univ. Braunschweig, Braunschweig, West Germany
Publication Date: 1987 Country of Publication: West Germany 3 vol. (542+568+472) pp.
Conference Sponsor: VDE; IEEE; CIGRE
Conference Date: 24-28 Aug. 1987 Conference Location: Braunschweig, West Germany
Language: English
Subfile: A B

Title: Calculation of induced voltage and current for a human close to an AC transmission line
Abstract: The authors calculate the induced voltage and current at a human close to a live AC transmission line. Using the Green's function formulation and the...
...Identifiers: induced current ;

16/3,K/46 (Item 6 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2008 Institution of Electrical Engineers. All rts. reserv.

02478975 INSPEC Abstract Number: B80013314
Title: Measures to prevent direct and indirect touch
Author(s): Daams, J.F.
Author Affiliation: Philips Nederland BV, Eindhoven, Netherlands
Journal: Polytechnisch Tijdschrift Elektrotechniek Elektronica vol.34, no.11 p.659-63
Publication Date: Nov. 1979 Country of Publication: Netherlands
CODEN: PTEEBR ISSN: 0032-4086
Language: Dutch
Subfile: B

...Abstract: indirect' touch in the proposed amendments to Dutch Standard NEN 1010 'Safety Regulations for Low- Voltage Installations', and measures to prevent contact between human body and low-voltage installations without disconnection of the installation. The proposed amendments comply on the...

... are to be used only as additional protection against direct contact, when their rated response current must not exceed 30 mA.

16/3,K/47 (Item 7 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2008 Institution of Electrical Engineers. All rts. reserv.

0000725197 INSPEC Abstract Number: 1965A26404

Title: Effects governing magnetically induced ionization

Author(s): Zauderer, B.

Book Title: Magnetohydrodynamic Electrical Power Generation p.439-452

Publisher: European Nuclear Energy Agency, Paris

Publication Date: 1964 Country of Publication: France

Language: English

Subfile: A

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...Abstract: 5x5x25 cm long, consisted of twenty separate short-circuited pairs of tungsten electrodes, The transverse magnetic field in the generator could be varied from 0 to 5 T. For initial xenon electrical...

... the conductivity increase in the MHD generator, which was proportional to the square of the magnetic field, was due to compressional heating by the Lorentz body forces. The value of Hall voltage was measured and beta was calculated to be less than one. When the Lorentz forces greatly exceeded the gas dynamic forces...

... in the generator was dependent on the aero-dynamic boundary layers at the electrodes, the magnetic field and impurities level. The high electrical resistivity of the electrode boundary layers prevented any conductivity...

... the ionization rate in the generator, as had been observed in the absence of a magnetic field. This increased conductivity is due to the low energy electronic states of the diatomic impurities...

...Descriptors: magnetic field effects

...Identifiers: magnetic fields -- ...

... magnetic fields --

16/3,K/48 (Item 8 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2008 Institution of Electrical Engineers. All rts. reserv.

0000454731 INSPEC Abstract Number: 1956B01390

Title: Calculation of the operating conditions of concentrated electrodes in magneto-viscous measurements

Author(s): Timofeev, B.B.

Journal: Elektrichestvo 10 p.53-56

Publication Date: 1955 Country of Publication: USSR

Language: Russian

Subfile: B

Copyright 2004, IEE

...Abstract: ferromagnetic solid. Permeability and electrical conductivity are assumed constant. For the single contact between ferromagnetic body and conductor a method of calculating the voltage drop on the surface is evolved taking into account the non-linear relation of permeability to magnetic field strength. This method is based on the substitution of a plot of straight, parabolic and...

16/3,K/49 (Item 9 from file: 2)
DIALOG(R)File 2:INSPEC
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0000216718 INSPEC Abstract Number: 1930B02099
Title: Force between unequal reactance coils having parallel axes
Author(s): Dwight, H.B.; Pursell, R.W.
Journal: General Electric Review 33 p.401-403
Publication Date: July 1930 Country of Publication: USA
Language: English
Subfile: B
Copyright 2004, IEE

...Abstract: formulae are given. The formulae are further useful in determining the effect of the leakage magnetic field of a reactor on surrounding structural steel bodies and in calculating the voltage which one reactor induces in another adjacent one.

16/3,K/50 (Item 1 from file: 6)
DIALOG(R)File 6:NTIS
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1933473 NTIS Accession Number: N96-15061/0
Laboratory Instrumentation and Techniques for Characterizing
Multi-Junction Solar Cells for Space Applications
(Abstract Only)
Woodyard, J. R.
Wayne State Univ., Detroit, MI.
Corp. Source Codes: 002798000; WH417575
Sponsor: National Aeronautics and Space Administration, Washington, DC.
1 Oct 95 1p
Languages: English
Journal Announcement: GRAI9607; STAR3403
In NASA. Lewis Research Center, Proceedings of the 14TH Space
Photovoltaic Research and Technology Conference (Sprat 14) p 25.
NTIS Prices: (Order as N96-15042, PC A03/MF A01)

...beam and determining the cell short-circuit current assuming linearity of the quantum efficiency. Additionally, current -voltage characteristics can not be calculated from measurements under non-AMO light sources using spectral-correction methods. There are...

... is described which consists of a standard lamp, spectral radiometer, dual-source solar simulator, and personal computer based current-voltage and quantum efficiency equipment. The spectral radiometer is calibrated regularly using the tungsten-halogen standard...

16/3,K/51 (Item 1 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)
(c) 2008 Elsevier Eng. Info. Inc. All rts. reserv.

08166115 E.I. No: EIP98114483919
Title: PC based simple ac Hall measurement system

Author: Ghanshyam, C.; Reddy, M.H. Madhusudhana; Ram, Nathai; Mishra, Sunita; Bhalla, Ketan; Bajpai, R.P.

Corporate Source: Central Scientific Instruments Organisation, Chandigarh, India

Source: IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India) v 15 n 1-2 Jan-Apr 1998. p 55-58

Publication Year: 1998

CODEN: ITREEI ISSN: 0256-4602

Language: English

...Abstract: dc-ac Hall measurement setup using the same circuit. In ac-ac system, both the magnetic field and the sample current are sinusoidal functions. Whereas in dc-ac system, dc magnetic field and ac sample current are used. This Hall measurement system is fully computer controlled and the user's interference is limited to only turning on and off the magnetic field and its polarity. The hardware and software enable the user to carry out functions such...

Descriptors: *Voltage measurement; Personal computers; Magnetic fields; Electric currents; Computer control; Computer software

16/3,K/52 (Item 2 from file: 8)

DIALOG(R)File 8:Ei Compendex(R)

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07203070 E.I. No: EIP95072769475

Title: System for measuring magnetic core noise as a function of the magnetization level

Author: Yoshihiro, Akira; Kajiwara, Kazunori; Mori, Kousei; Sonoda, Toshikatsu; Ueda, Ryuzo; Miki, Yoshiteru

Corporate Source: Kyushu Inst of Technology, Kitakyushu, Jpn

Source: IEEE Transactions on Magnetics v 31 n 4 Jul 1995. p 2389-2407

Publication Year: 1995

CODEN: IEMGAQ ISSN: 0018-9464

Language: English

...Abstract: periodically extracts the fluctuation voltage, induced at an arbitrary but specified point of the impressed magnetic field, as an instantaneous value. The minimum extraction interval is mainly determined by the integration time...

Descriptors: *Magnetic cores; Magnetization; Signal noise measurement; Magnetic hysteresis; Eddy currents; Magnetic fields; Digital voltmeters; Personal computers; Statistical methods; Voltage measurement

16/3,K/53 (Item 1 from file: 95)

DIALOG(R)File 95:TEME-Technology & Management

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00919309 E95096363012

A combined current and voltage sensor for metering and protection in high voltage power systems

(Ein kombinierter Strom- und Spannungsgeber fuer das Messen und Schuetzen elektrischer Hochspannungsanlagen durch das Poyntingsche Prinzips)

Fam, WZ

1994 Canadian Conf. on Electrical and Comput. Engineering, Conf. Proc.,

Vol. 1, Halifax, CDN, Sep 25-28, 19941994
Document type: Conference paper Language: English
Record type: Abstract
ISBN: 07803-2416-1

ABSTRACT:

...operation is based on the measurement of the Poynting vector from its constituent electric and magnetic fields in a very well defined region of space around the high voltage conductor. The signals...

DESCRIPTORS: AMMETRY; VOLTAGE MEASUREMENT ; HIGH TENSION PLANTS ; DENSITY...

...POWER; ELECTRIC FIELD ; MAGNETIC FIELD

16/3,K/54 (Item 2 from file: 95)
DIALOG(R)File 95:TEME-Technology & Management
(c) 2008 FIZ TECHNIK. All rts. reserv.

00642874 E92100899254

Performance and conceptual design of superconducting magnet for disk MHD generator

(Verhalten und geplante Ausfuehrung eines Supraleitermagnets fuer einen Scheiben-MHD-Generator)

Tetsuji Okamura; Shigeharu Kabashima; Susumu Shioda; Yoshihiro Okuno
Tokyo Inst. of Technol., J; Saga Univ., J

Electrical Engineering in Japan, v112, n4, pp65-73, 1992

Document type: journal article Language: English

Record type: Abstract

ISSN: 0424-7760

ABSTRACT:

...power density of 0.3-1 GW/m(exp 3)) can be obtained with high magnetic field up to 10 T.

DESCRIPTORS: SUPERCONDUCTING MAGNETS; MAGNETOHYDRODYNAMIC CONVERSION; POWER

GENERATION; EXPERIMENTAL PLANTS ; ELECTROMOTIVE FORCE; TESTING; INDUCED VOLTAGE ; MEASURING ; COIL...

17/3,K/1 (Item 1 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2008 The Thomson Corporation. All rts. reserv.

18797429 BIOSIS NO.: 200600142824
Apparatus and method for measuring current flow in an animal or human body
AUTHOR: Kavet Robert ; Niple John C; Sullivan Thomas P ; Zaffanella
Luciano E
AUTHOR ADDRESS: San Carlos, CA USA**USA
JOURNAL: Official Gazette of the United States Patent and Trademark Office
Patents MAR 8 2005 2005
PATENT NUMBER: US 06865410 PATENT DATE GRANTED: March 08, 2005 20050308
PATENT CLASSIFICATION: 600-407 PATENT ASSIGNEE: Electric Power Research
Institute, Inc. PATENT COUNTRY: USA
ISSN: 0098-1133
DOCUMENT TYPE: Patent
RECORD TYPE: Abstract
LANGUAGE: English

AUTHOR: Kavet Robert ...

... Sullivan Thomas P ...

... Zaffanella Luciano E

...ABSTRACT: for measuring contact current includes data acquisition
circuitry with at least two sensor contacts to measure the voltage
drop across an animal or human body. A portable data processing unit
is connected to the data acquisition circuitry to process...

Patent Files:-

File 347:JAPIO Dec 1976-2007/Oct(Updated 080129)

(c) 2008 JPO & JAPIO

File 350:Derwent WPIX 1963-2008/UD=200820

(c) 2008 The Thomson Corporation

Set	Items	Description
S1	100661	(MEASUR???? OR RECORD??? OR CALCULAT??? OR COMPUTE? ? OR - COMPUTES OR COMPUTING OR ANALY???? OR GUAG??? OR DETERMIN???- (5N)VOLTAGE? ?
S2	60348	(WITHOUT OR "NOT" OR "NO" OR WITH()OUT OR OMIT??? OR OMISI- ON OR EXCLUD???) (3N)CURRENT??
S3	238023	(APPLY???? OR APPLICATION OR SUPPL???? OR PROVID???? OR DI- STRIBUT????) (3N)CURRENT??
S4	756	S1(5W)(VEGETABLE? ? OR POTATO?? OR PLANT?? OR TREE OR CROP- ?? OR AGRICULTURE?? OR LIVING OR BODY OR BODIES OR CREATURE?? OR ANIMAL?? OR PERSON?? OR HUMAN OR MAN OR MEN OR CHILD OR AL- IVE)
S5	221900	INDUC??? (3N)CURRENT OR MAGNETIC(3N)FIELD?? OR EMF OR ELECT- RONIC(2N)MAGNETIC?? OR ELECTRO()MAGNETIC??
S6	270	AU=(KAVET R? OR KAVET, R? OR NIPPLE J? OR NIPPLE, J? OR SU- LLIVAN T? OR SULLIVAN, T? OR ZAFFANELLA L? OR ZAFFANELLA, L?)
S7	0	S4 AND S2 AND S3 AND S5
S8	0	S4 AND S2 AND S5
S9	28	S4 AND S5
S10	26	S9 NOT AD=20000804:20020327/PR
S11	24	S10 NOT AD=20020327:20040327/PR
S12	21	S11 NOT AD=20040327:20080327/PR
S13	4	S4(10N)S2
S14	19	S4 AND S2
S15	6672	S2(10N)S3
S16	3	S15 AND S4
S17	3	S16 NOT S10
S18	3	S13 NOT S16
S19	13	S14 NOT (S13 OR S16 OR S9)
S20	12	S19 NOT AD=20000804:20020327/PR
S21	12	S20 NOT AD=20020327:20040327/PR
S22	11	S21 NOT AD=20040327:20080327/PR
S23	2	S6 AND S4
S24	0	S23 AND S5

12/3,K/1 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2008 JPO & JAPIO. All rts. reserv.

06024024 **Image available**

METHOD AND DEVICE FOR NON-DESTRUCTIVE INSPECTION FOR BODY STEEL FRAME

PUB. NO.: 10-307124 [JP 10307124 A]
PUBLISHED: November 17, 1998 (19981117)
INVENTOR(s): SAITO TAKESHI
YOKOTA YORIHAYA
HIRAI JUNICHI
MIURA SATORU
IMAI MICHIO

APPLICANT(s): KAJIMA CORP [000137] (A Japanese Company or Corporation), JP
(Japan)

APPL. NO.: 09-117919 [JP 97117919]
FILED: May 08, 1997 (19970508)

ABSTRACT

...SOLUTION: A detecting device 2 which uses a small magnetic field probe of multiple-turn is attached, in parallel to a steel frame of a to
...

...probe is converted into a DC voltage by an RMS amplifier 3, and the DC voltage is converted for a personal computer by an A/C conversion board 4. A personal computer 5 displays a magnetic field distribution based on the detected voltage and its position from the small probe, thus the...

12/3,K/2 (Item 2 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2008 JPO & JAPIO. All rts. reserv.

04485987 **Image available**

APPARATUS FOR MEASURING STREAM-IN-STEM OF PLANT

PUB. NO.: 06-129887 [JP 6129887 A]
PUBLISHED: May 13, 1994 (19940513)
INVENTOR(s): KOYAMA YASUNORI

APPLICANT(s): TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP
(Japan)

APPL. NO.: 04-278558 [JP 92278558]
FILED: October 16, 1992 (19921016)

JOURNAL: Section: P, Section No. 1782, Vol. 18, No. 420, Pg. 45,
August 05, 1994 (19940805)

ABSTRACT

... flow rate of the stream-in-stem running in the direction rectangular to the generated magnetic field .
...

...CONSTITUTION: A stem part of a plant is pinched with a clip-like measuring apparatus main body 1. Voltage from an electric power source 15 is applied to the coils 11a, 11b built in the pinching part of the main body 14 to generate a magnetic field to the binding direction of both coils. When stream-in-stem is generated in the direction rectangular to the magnetic field, potential difference occurs between the electrodes 12a, 12b corresponding to the stream speed and is

12/3,K/3 (Item 3 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2008 JPO & JAPIO. All rts. reserv.

03784583 **Image available**
IDENTIFYING METHOD FOR MAGNETIC MARKER

PUB. NO.: 04-149683 [JP 4149683 A]
PUBLISHED: May 22, 1992 (19920522)
INVENTOR(s): SAITO OSAMU
KATSUYAMA TERUSHI
MATSUSHITA SHIGETADA
APPLICANT(s): FUJI ELECTRIC CO LTD [000523] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 02-271231 [JP 90271231]
FILED: October 09, 1990 (19901009)
JOURNAL: Section: P, Section No. 1419, Vol. 16, No. 436, Pg. 32,
September 11, 1992 (19920911)

ABSTRACT

... identification of an article from occurring by reducing a white noise due to an external magnetic field and the function of a detection circuit itself by integrating and averaging a pulse voltage...

... according to the reversal of magnetization of a magnetic marker 1 generated by an AC magnetic field as an induced electromotive voltage are connected to a measuring instrument 8 and a personal computer 9 in series. The level of the pulse voltage sequence signal is reduced depending ...

12/3,K/4 (Item 4 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2008 JPO & JAPIO. All rts. reserv.

00846163 **Image available**
MEASURING METHOD FOR DEPTH OF NITRIDE LAYER

PUB. NO.: 56-166463 [JP 56166463 A]
PUBLISHED: December 21, 1981 (19811221)
INVENTOR(s): HASEGAWA SUTETO
AKASAKA MASATOSHI
SUGANO MASANORI
APPLICANT(s): TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 55-069658 [JP 8069658]
FILED: May 27, 1980 (19800527)

JOURNAL: Section: P, Section No. 109, Vol. 06, No. 53, Pg. 7, April
08, 1982 (19820408)

ABSTRACT

...low-frequency magnetic induction force is excited. By said low-frequency magnetic induction force, a magnetic field is generated between both the contact terminals 5a and 5b of the probe 5, and a voltage is generated in the coil disposed in the probe 5. Said voltage is amplified in a measuring apparatus main body 6 to measure the ferrite quantity. The ferrite quantity measured thereby is converted into the...

12/3,K/5 (Item 5 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2008 JPO & JAPIO. All rts. reserv.

00602339 **Image available**

MAGNETIC RECORDING ROTARY BODY AND ITS MANUFACTURE

PUB. NO.: 55-089939 [JP 55089939 A]
PUBLISHED: July 08, 1980 (19800708)
INVENTOR(s): ARAKI TETSUAKI
APPLICANT(s): NIPPON COLUMBIA CO LTD [000416] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 53-162696 [JP 78162696]
FILED: December 27, 1978 (19781227)
JOURNAL: Section: P, Section No. 30, Vol. 04, No. 142, Pg. 14, October
07, 1980 (19801007)

ABSTRACT

... signal is recorded from the main rotary body to the rotary body by reducing the voltage applied to the recording head after the rotary body turns by one at the recording condition and stopping the rotary body when zero...

...body A such as turn table from the main rotary body B, the effect of magnetic field adjacent to the last and first is reduced, allowing to perform the detection signal recording...

12/3,K/6 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2008 The Thomson Corporation. All rts. reserv.

0010304786 - Drawing available

WPI ACC NO: 2000-618673/200059

XRPX Acc No: N2000-458509

Displacement and/or angle sensor with meandering measurement winding has constant turns pitch with varying turn width

Patent Assignee: GLEIXNER F (GLEI-I); SIEDLE GMBH & CO KG HORST (SIED-N)

Inventor: GLEIXNER F

Patent Family (8 patents, 19 countries)

Patent Application

Number	Kind	Date	Number	Kind	Date	Update
--------	------	------	--------	------	------	--------

WO 2000046574	A1	20000810	WO 1999DE4126	A	19991229	200059 B
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DE 19905847	A1	20000824	DE 19905847	A	19990212	200059 E
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DE 19905847 C2 20010222 DE 19905847 A 19990212 200111 E
 EP 1151248 A1 20011107 EP 1999964472 A 19991229 200168 E
 WO 1999DE4126 A 19991229
 US 20020030485 A1 20020314 US 2001890823 A 20010806 200222 E
 EP 1151248 B1 20040414 EP 1999964472 A 19991229 200426 E
 WO 1999DE4126 A 19991229
 DE 59909209 G 20040519 DE 59909209 A 19991229 200434 E
 EP 1999964472 A 19991229
 WO 1999DE4126 A 19991229
 US 6922051 B2 20050726 WO 1999DE4126 A 19991229 200549 E
 US 2001890823 A 20010806

Priority Applications (no., kind, date): DE 19904689 A 19990205; DE
 19905847 A 19990212; WO 1999DE4126 A 19991229

Patent Details

Number Kind Lan Pg Dwg Filing Notes

WO 2000046574 A1 DE 25 5

National Designated States,Original: US

Regional Designated States,Original: AT BE CH CY DE DK ES FI FR GB GR IE
 IT LU MC NL PT SE

EP 1151248 A1 DE PCT Application WO 1999DE4126

Based on OPI patent WO 2000046574

Regional Designated States,Original: AT BE CH CY DE DK ES FI FR GB GR IE
 IT LI LU MC NL PT SE

EP 1151248 B1 DE PCT Application WO 1999DE4126

Based on OPI patent WO 2000046574

Regional Designated States,Original: AT BE CH CY DE DK ES FI FR GB GR IE
 IT LI LU MC NL PT SE

DE 59909209 G DE Application EP 1999964472

PCT Application WO 1999DE4126

Based on OPI patent EP 1151248

Based on OPI patent WO 2000046574

US 6922051 B2 EN PCT Application WO 1999DE4126

Based on OPI patent WO 2000046574

Original Publication Data by Authority

Original Abstracts:

...is characterized in that the displaceable body has an inductive
 transmission element which generates a magnetic alternating field
 extending over a limited area. In addition, this alternating field
 entirely or partially permeates at least one conductor loop which extends
 over the measuring length...

...is characterized in that the displaceable body has an inductive
 transmission element which generates a magnetic alternating field
 extending over a limited area. In addition, this alternating field
 entirely or partially permeates at least one conductor loop which
 extends over the measuring length and which is connected...

...inductive transmission element in the body, the transmission element
 being operative for generating an alternating magnetic field flux. The
 body is movably arranged such that the flux passes over a flux path area of
 the housing. At least one conductor loop is arranged on the housing

along a measuring length on...

...given measurement path location by the flux of the flux region induces a loop output voltage indicative of a body measurement length position on the housing or of a body angular position on the body .

E...is characterized in that the displaceable body has an inductive transmission element which generates a magnetic alternating field extending over a limited area. In addition, this alternating field entirely or partially permeates at least one conductor loop which extends over the measuring length and which is connected to the housing. Said conductor loop comprises a feed line along the measuring path, and the return line thereof is...

Claims:

...that the displaceable body has an inductive transmission element (6; 16), which generates an alternating magnetic field extending over a limited region and some or all of the flux of this alternating...

...at regular intervals in such a way that alternately only a small amount of the flux of the alternating field of the transmission element (6) permeates it or so that most of the flux of...characterized in that the movable body has an inductive transmission element, which generates an alternating magnetic field extending over a limited region, some or all of the flux of this alternating field...

...the transmission element permeates it or so that most of the flux of the alternating field permeates it ; and in that the areas permeated by large amounts of flux have a width which...

...said fixed housing, said body having an inductive transmission element operative for generating an alternating magnetic field flux during movement of said body said flux passing over a flux path area of...

...return line at a given path location by the flux of said flux region inducing a loop output voltage indicative of a measurement length position of said body on said fixed housing, the return line having a width in areas permeated by large

12/3,K/7 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2008 The Thomson Corporation. All rts. reserv.

0009637966 - Drawing available
WPI ACC NO: 1999-589586/199950
XRPX Acc No: N1999-434718
Multiphase direct current voltage regulator for personal computer
Patent Assignee: DELL USA LP (DELL-N)
Inventor: BROWN A E
Patent Family (1 patents, 1 countries)
Patent Application
Number Kind Date Number Kind Date Update
US 5959441 A 19990928 US 1997832254 A 19970403 199950 B

Priority Applications (no., kind, date): US 1997832254 A 19970403

Patent Details

Number Kind Lan Pg Dwg Filing Notes
US 5959441 A EN 17 3

Multiphase direct current voltage regulator for personal computer

Original Publication Data by Authority

Claims:

...regulator output;a first switch coupled to the first inductor, the first switch coupled to receive current from the DC power source and to supply the current to the first inductor ;a second inductor coupled to the regulator output;a second switch coupled to the second inductor, the second switch coupled to receive current from the DC power source and to supply the current to the second inductor , the second switch controlling the amount of current supplied from the DC power source to the second inductor ;a voltage mode control circuit receiving an indication voltage level indicative of the amount of current supplied from the DC power source to the second inductor , the voltage mode control circuit providing a first control signal dependent upon the indication voltage level;a...

...switch controlling the amount of current from the DC power source supplied to the first inductor according to the first switching signal;a second switching circuit providing a second switching signal to the second switch...

12/3,K/8 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2008 The Thomson Corporation. All rts. reserv.

0009489080 - Drawing available
WPI ACC NO: 1999-431159/199937
XRPX Acc No: N1999-320889
Inductive angle measuring system
Patent Assignee: SCHLEICHER W (SCHL-I)
Inventor: SCHLEICHER W
Patent Family (3 patents, 25 countries)

Patent Number	Application
DE 19800380	Kind Date Update A1 19990715 DE 19800380 A 19980108 199937 B
EP 932018	A2 19990728 EP 1999100063 A 19990105 199937 E
DE 19800380	C2 20000302 DE 19800380 A 19980108 200016 E

Priority Applications (no., kind, date): DE 19800380 A 19980108

Patent Details

Number Kind Lan Pg Dwg Filing Notes
DE 19800380 A1 DE 14 10

EP 932018 A2 DE

Regional Designated States,Original: AL AT BE CH CY DE DK ES FI FR GB GR
IE IT LI LT LU LV MC MK NL PT RO SE SI

Alerting Abstract ...measuring coil (2,3), in which a measuring voltage is induced by at least one magnetic alternating field and a rotationally driven measuring body (4), which affects the inductance and

measuring voltage of...

...ADVANTAGE - Inductive angle measuring system facilitates optimum induction coupling between magnetic alternating field and the measuring coils essentially independent of the structural size of the angle measuring system...

Original Publication Data by Authority

Original Abstracts:

...measuring coil (2,3), in which a measuring voltage is induced by at least one magnetic alternating field and a rotationally driven measuring body (4), which affects the inductance and measuring voltage of the measuring coil according to its position opposite the measuring coil. The measuring coil is formed of two oppositely wound coaxial coil rings. The coil...

12/3,K/9 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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0009263356 - Drawing available

WPI ACC NO: 1999-191758/199917

XRPX Acc No: N1999-140367

Lateral position detection system for determining lateral position of moving body e.g. vehicle

Patent Assignee: NIPPON JIDOSHA BUHIN SOGO (NIJI); NIPPON SOKEN INC (NSOK)

Inventor: ISHIHARA T; KITAHARA T; TSUGE S

Patent Family (3 patents, 3 countries)

Patent Application

Number	Kind	Date	Number	Kind	Date	Update
DE 19838653	A1	19990304	DE 19838653	A	19980825	199917 B
JP 11073600	A	19990316	JP 1997233026	A	19970828	199921 E
US 6032110	A	20000229	US 1998114931	A	19980714	200018 E

Priority Applications (no., kind, date): JP 1997233026 A 19970828

Patent Details

Number Kind Lan Pg Dwg Filing Notes

DE 19838653 A1 DE 24 20

JP 11073600 A JA 14

Alerting Abstract ...NOVELTY - Control facilities (30) control one of the AC magnetic field transmission systems, such that it transmits an AC magnetic field. AC magnetic field reception facilities (40a, 40b, 40A, 40B) are installed at a lower part region (B) of the self moving body, for the sequential receiving of the AC magnetic fields transmitted by the magnetic field transmitting systems, during which the moving body installed moves itself....a lateral position (L) of the self moving body, on the basis of the AC magnetic fields, received sequentially by means of the AC magnetic field transmission systems...

...ADVANTAGE - The lateral position detection is carried out with a high degree of accuracy, using magnetic field transmission systems. The systems are respectively used for producing AC magnetic fields as

marking...

Original Publication Data by Authority

Original Abstracts:

...signal generating circuit drives the associated marker so that the marker transmits an alternating current magnetic field . Alternating current magnetic field receiving devices each comprising an electromagnetic coil are installed on the front bumper of a...

...the lateral center line of the vehicle. While the vehicle is running, the alternating current magnetic field receiving devices sequentially receive the alternating current magnetic fields generated by the markers one field after another. A microcomputer receives detection voltages generated by the alternating current magnetic field receiving devices through detection circuits and determines the lateral position of the vehicle from the...

Claims:

...position detecting apparatus for detecting a lateral position of a moving body, comprising:alternating current magnetic field transmitting devices installed on a surface of a running path of the moving body at...

...predetermined intervals in a longitudinal direction;driving means for driving one of the alternating current magnetic field transmitting devices so that the alternating current magnetic field transmitting device transmits an alternating current magnetic field ;alternating current magnetic field receiving means installed on a lower portion of the moving body for sequentially receiving the alternating current magnetic fields transmitted by the alternating current magnetic field transmitting devices while the moving body is moving; and lateral position detecting means provided on the moving body for detecting a lateral position of the moving body based on the alternating current magnetic fields sequentially received by the alternating current magnetic field receiving means,wherein:the alternating current magnetic field transmitting devices are each a magnetic field transmitting coil having an axis oriented in a vertical direction against the running path;the driving means each includes oscillation means driven by electric power supplied by a power supply into oscillation and a driving circuit driven by the oscillation for driving one of the magnetic field transmitting coils associated with the driving means so that the magnetic field transmitting coil transmits an alternating current magnetic field ;the alternating current magnetic field receiving means includes a pair of magnetic field receiving coils installed on the lower portion of the moving body at positions symmetrical with respect to a lateral center line of the moving body for receiving the alternating current magnetic fields transmitted by the transmitting coils while the moving body is moving; the lateral position detecting means includes voltage detecting means for detecting the alternating current magnetic fields received by the magnetic field receiving coils as detection voltages , and distance determining means for determining a distance from the lateral center line of the moving body to the axis of the magnetic field transmitting coil from the detection voltages by using data representing relations among the distance, one of the detection voltages and a ratio of the another of the detection voltages to the one of the detection voltages; andthe

distance determined by the distance determining means is used as a basis for detecting the lateral position of the moving body.

12/3,K/10 (Item 5 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0009134302 - Drawing available
WPI ACC NO: 1999-055197/199905
XRAM Acc No: C1999-016790
XRPX Acc No: N1999-041729
Body steel frame non-destructive testing equipment for detecting cracks in steel frames - analyses induced voltage from several parallel position small field probes of detector in all directions in response to high frequency voltage generator
Patent Assignee: KAJIMA CORP (KAJI)
Inventor: HIRAI J; IMAI M; MIURA S; SAITO T; YOKOTA Y
Patent Family (1 patents, 1 countries)
Patent Application
Number Kind Date Number Kind Date Update
JP 10307124 A 19981117 JP 1997117919 A 19970508 199905 B

Priority Applications (no., kind, date): JP 1997117919 A 19970508

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
JP 10307124	A	JA	6	9		

Alerting Abstract ...frequency voltage to the steel frame being tested. A detector (2) is arranged with several magnetic field probes of small volume in all directions at parallel positions for generating an induced voltage...

...induced voltage into DC and an A/D transformation board (4) which transforms the DC voltage into a personal computer (5). The screen display of the magnetic field distribution is performed by the personal computer according to the detection voltage from the small...

Documentation Abstract

...frequency voltage to the steel frame being tested. A detector (2) is arranged with several magnetic field probes of small volume in all directions at parallel positions for generating an induced voltage...

...induced voltage into DC and an A/D transformation board (4) which transforms the DC voltage into a personal computer (5). The screen display of the magnetic field distribution is performed by the personal computer according to the detection voltage from the small...

12/3,K/11 (Item 6 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0009114546 - Drawing available
WPI ACC NO: 1999-034264/199903

XRPX Acc No: N1999-025608

Pistol detection system for e.g. store doors - uses gate arrangement with magnetic flux generation under central control for identification of induced voltage changes that represent flux variations

Patent Assignee: BANGSAN CHEM CORP (BANG-N); KIM S (KIMS-I); KIM S J (KIMS-I); PARK B (PARK-I); PARK B Y (PARK-I)

Inventor: PARK B; PARK B Y

Patent Family (3 patents, 2 countries)

Patent Application

Number	Kind	Date	Number	Kind	Date	Update
US 5841346	A	19981124	US 199850050	A	19980330	199903 B
KR 1998003640	A	19980330	KR 199771287	A	19971220	199903 E
KR 228251	B1	19991101	KR 199771287	A	19971220	200110 E

Priority Applications (no., kind, date): KR 199771287 A 19971220

Patent Details

Number Kind Lan Pg Dwg Filing Notes

US 5841346 A EN 10 7

Alerting Abstract ...energised. The detection of pistols is carried out at a gate [140] which defines a magnetic field . The magnetic force generating unit [130] generates a control signal to generate the magnetic force in the...

Original Publication Data by Authority

Original Abstracts:

...fluxes, thereby generating an induced voltage, a magnetic force receiving unit for detecting the induced voltage , thereby determining whether or not a person who passes through the gate carries a pistol, a camera for picking up an image of the person who...

Claims:

...fluxes, thereby generating an induced voltage;a magnetic force receiving unit for detecting the induced voltage generated from the gate, determining whether or not a person who passes through the gate carries a pistol, based on the detected induced voltage, and applying the result of the determination to the main control unit;a...

12/3,K/12 (Item 7 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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0008409211 - Drawing available

WPI ACC NO: 1997-526155/199748

Related WPI Acc No: 2001-381459

XRPX Acc No: N1997-438509

Non-invasive measurement appts. for biomedical impedance analysis of blood flow - includes two electrodes placed in trachea and two current electrodes in thorax so that biomedical measurements based on voltage drop sensed by first two electrodes reflect voltage changes induced by blood flow dynamics

Patent Assignee: IMAGYN MEDICAL TECHNOLOGIES CALIFORNIA (IMAG-N); UROHEALTH INC (UROH-N)

Inventor: SHMULEWITZ A; WALLACE A A

Patent Family (9 patents, 74 countries)

Patent		Application				
Number	Kind	Date	Number	Kind	Date	Update
WO 1997038628	A1	19971023	WO 1997US6369	A	19970417	199748 B
AU 199727323	A	19971107	AU 199727323	A	19970417	199809 E
US 5782774	A	19980721	US 1996634758	A	19960417	199836 E
			US 1996726822	A	19961004	
US 5791349	A	19980811	US 1996634758	A	19960417	199839 E
EP 904012	A1	19990331	EP 1997921222	A	19970417	199917 E
			WO 1997US6369	A	19970417	
JP 2000508563	W	20000711	JP 1997537361	A	19970417	200038 E
			WO 1997US6369	A	19970417	
US 6095987	A	20000801	US 1996634758	A	19960417	200039 E
			US 1996726822	A	19961004	
			WO 1997US6369	A	19970417	
			US 1997934036	A	19970919	
EP 904012	B1	20020626	EP 1997921222	A	19970417	200242 E
			WO 1997US6369	A	19970417	
DE 69713595	E	20020801	DE 69713595	A	19970417	200258 E
			EP 1997921222	A	19970417	
			WO 1997US6369	A	19970417	

Priority Applications (no., kind, date): US 1996634758 A 19960417; US 1996726822 A 19961004; US 1997934036 A 19970919

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
WO 1997038628	A1	EN	49	9		

National Designated States,Original: AL AM AT AU AZ BA BB BG BR BY CA CH
CN CU CZ DE DK EE ES FI GB GE GH HU IL IS JP KE KG KP KR KZ LC LK LR LS
LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT
UA UG US UZ VN YU

Regional Designated States,Original: AT BE CH DE DK EA ES FI FR GB GH GR
IE IT KE LS LU MC MW NL OA PT SD SE SZ UG

AU 199727323 A EN Based on OPI patent WO 1997038628

US 5782774 A EN C-I-P of application US 1996634758

EP 904012 A1 EN PCT Application WO 1997US6369

Based on OPI patent WO 1997038628

Regional Designated States,Original: AT BE CH DE DK ES FI FR GB GR IE IT
LI LU MC NL PT SE

JP 2000508563 W JA 37 PCT Application WO 1997US6369

Based on OPI patent WO 1997038628

US 6095987 A EN Continuation of application US
1996634758

C-I-P of application US 1996726822

PCT Application WO 1997US6369

C-I-P of patent US 5782774

Continuation of patent US 5791346

EP 904012 B1 EN PCT Application WO 1997US6369

Based on OPI patent WO 1997038628

Regional Designated States,Original: AT BE CH DE DK ES FI FR GB GR IE IT
LI LU MC NL PT SE

DE 69713595 E DE Application EP 1997921222

PCT Application WO 1997US6369

Based on OPI patent EP 904012

Based on OPI patent WO 1997038628

Alerting Abstract ...ADVANTAGE - Accurate, non-invasive and continuous measurement of cardiac output. Overcomes inaccuracies arising from measuring voltage changes across whole body or large volume thoracic segments.

Original Publication Data by Authority

Original Abstracts:

...that bioelectrical impedance measurements based on the voltage drop sensed by the first and second electrodes reflect voltage changes induced primarily by blood flow dynamics, rather than respiratory or non-cardiac related physiological effects. Additionally...

12/3,K/13 (Item 8 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2008 The Thomson Corporation. All rts. reserv.

0008187297 - Drawing available

WPI ACC NO: 1997-290568/199727

XRPX Acc No: N1997-240438

Magnetic-inductive flow meter esp. for pastes, muds - has measurement tube, electromagnet device with electrically conducting loop arrangement generating magnetic field transversely through tube and at least two measurement electrodes

Patent Assignee: ELSAG INT NV (ELSA-N)

Inventor: SCHWIDERSKI H W

Patent Family (4 patents, 9 countries)

Patent Application

Number	Kind	Date	Number	Kind	Date	Update
DE 19604004	C1	19970605	DE 19604004	A	19960205	199727 B
EP 787975	A1	19970806	EP 1997100328	A	19970110	199736 E
JP 9218063	A	19970819	JP 199722981	A	19970205	199743 E
US 5750902	A	19980512	US 1997794145	A	19970203	199826 E

Priority Applications (no., kind, date): DE 19604004 A 19960205

Patent Details

Number Kind Lan Pg Dwg Filing Notes

DE 19604004 C1 DE 14 9

EP 787975 A1 DE 16 9

Regional Designated States,Original: BE DE DK FR GB IT NL

JP 9218063 A JA 10

...has measurement tube, electromagnet device with electrically conducting loop arrangement generating magnetic field transversely through tube and at least two measurement electrodes

Alerting Abstract ...electromagnet device with at least one electrically conducting loop arrangement (7,7') for generating a magnetic field passing transversely through the tube and at least two measurement electrodes (9,9'). The electrodes...

...ADVANTAGE - Conducting loop arrangement can be simply manufactured. Can be used to generate strong magnetic fields required with large

measurement tubes without unacceptably reducing measurement speed of flow meter.

Original Publication Data by Authority

Original Abstracts:

...electromagnet device with at least one electrically conducting loop arrangement (7,7') for generating a magnetic field passing transversely through the tube and at least two measurement electrodes (9,9'). The electrodes are arranged opposite each other...

...tube, an electromagnet device with at least one electric conductor loop arrangement for generating a magnetic field penetrating the measuring tube at right angles to the longitudinal axis thereof, and at least two measuring electrodes, which are arranged opposite one another at right...

...tap a measuring voltage induced owing to the flow, proceeding at right angles to the magnetic field, of a liquid flowing through the measuring tube. The electric conductor loop arrangement has an electrically conductive sheet-metal part which is fitted on the inner...

...The flow meter has a simpler design of the electromagnet device and permits square-wave magnetic field excitation by means of a comparatively high frequency even in the case of measuring tubes having large nominal diameters (for example DN>300) since the conductor...

Claims:

...a body; an electromagnet device with at least one electric conductor loop arrangement for generating a magnetic field penetrating said measuring tube at right angles to the longitudinal axis thereof; and at...

...that they can be used to tap a measuring voltage induced owing to the flow, proceeding at right angles to the magnetic field, of a liquid flowing through said measuring tube; said electric conductor loop arrangement comprising...

...said sheet-metal part arranged on the inner side or on the outer side of said measuring tube body and having at least one cutout which is perpendicular to the longitudinal axis of said measuring tube, said cutout acting as inner boundary of said sheet-metal part...

12/3,K/14 (Item 9 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2008 The Thomson Corporation. All rts. reserv.

0007986034 - Drawing available
WPI ACC NO: 1997-077331/199707
XRPX Acc No: N1997-064204

Navigation of catheter probe used during surgical procedure - has sensing coil within which orientation and positional signal values are induced from which its orientation and position are determined

Patent Assignee: MARTINELLI M A (MART-I); MEDTRONIC INC (MEDT)

Inventor: MARTINELLI M A

Patent Family (4 patents, 20 countries)

Patent Application

Number	Kind	Date	Number	Kind	Date	Update
--------	------	------	--------	------	------	--------

WO 1997000043 A1 19970103 WO 1996US10050 A 19960611 199707 B
US 5592939 A 19970114 US 1995490342 A 19950614 199709 E
EP 836413 A1 19980422 EP 1996919360 A 19960611 199820 E
WO 1996US10050 A 19960611
JP 11510406 W 19990914 WO 1996US10050 A 19960611 199948 E
JP 1997503261 A 19960611

Priority Applications (no., kind, date): US 1995490342 A 19950614

Patent Details

Number Kind Lan Pg Dwg Filing Notes

WO 1997000043 A1 EN 36 9

National Designated States,Original: JP

Regional Designated States,Original: AT BE CH DE DK ES FI FR GB GR IE IT

LU MC NL PT SE

US 5592939 A EN 16 9

EP 836413 A1 EN PCT Application WO 1996US10050

Based on OPI patent WO 1997000043

Regional Designated States,Original: CH DE FR GB LI NL SE

JP 11510406 W JA 38 PCT Application WO 1996US10050

Based on OPI patent WO 1997000043

Original Publication Data by Authority

Original Abstracts:

...body cavity includes a sensing coil (14) affixed to a distal end of the probe. Magnetic fields are projected into the body cavity to induce voltage signals in the sensing coil (14) that are sufficient to...

...sensing coil may be determined from known values of the unidirectional fields and the measured induced voltage signals. Gradient magnetic fields with components in two dimensions are projected into the body cavity to induce another group of voltage signals. The...

...a body cavity includes a sensing coil affixed to a distal end of the probe. Magnetic fields are projected into the body cavity to induce voltage signals in the sensing coil that are sufficient to describe the orientation and position of the probe. A set of magnetic coils each generates a substantially uniform field in a single respective dimension. The orientation angles of the sensing coil may be determined from known values of the unidirectional fields and the measured induced voltage signals. Gradient magnetic fields with components in two dimensions are projected into the body cavity to induce another group of voltage signals. The geometrical intersection of constant voltage surfaces...

...body cavity includes a sensing coil (14) affixed to a distal end of the probe. Magnetic fields are projected into the body cavity to induce voltage signals in the sensing coil (14) that are sufficient to describe the orientation and position of the probe. A set of magnetic coils (20-26, 30-32, 36-42) each generates a substantially uniform field (27 , 33, 43) in a single respective dimension. The orientation angles of the sensing coil may...

...determined from known values of the unidirectional fields and the measured induced voltage signals. Gradient magnetic fields with

components in two dimensions are projected into the body cavity to induce another group of voltage signals. The geometrical intersection of constant voltage surfaces developed by certain gradient...

12/3,K/15 (Item 10 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2008 The Thomson Corporation. All rts. reserv.

0005375036 - Drawing available
WPI ACC NO: 1990-375073/199050
XRPX Acc No: N1990-285871
Seeker having gyroscopic spin stabilised optical arrangement - gimbals relative to specific body in response to current fed to precession coil by processor
Patent Assignee: RAYTHEON CO (RAYT)
Inventor: KLAUS B
Patent Family (7 patents, 5 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
US 4973013	A	19901127	US 1989395870	A	19890818	199050 B
EP 413594	A	19910220	EP 1990309039	A	19900817	199108 E
EP 413594	A3	19920708	EP 1990309039	A	19900817	199334 E
EP 413594	B1	19950125	EP 1990309039	A	19900817	199508 E
DE 69016305	E	19950309	DE 69016305	A	19900817	199515 E
			EP 1990309039	A	19900817	
JP 2924920	B2	19990726	JP 1990217997	A	19900817	199935 E
JP 3091697	A	19910417	JP 1990217997	A	19900817	199939 E

Priority Applications (no., kind, date): US 1989395870 A 19890818

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
EP 413594	A	EN				
Regional Designated States,Original: DE FR GB						
EP 413594	A3	EN				
EP 413594	B1	EN	19			
Regional Designated States,Original: DE FR GB						
DE 69016305	E	DE			Application	EP 1990309039
Based on OPI patent EP 413594						
JP 2924920	B2	JA	16		Previously issued patent	JP 03091697

Original Publication Data by Authority

Original Abstracts:

...precession coil by a processor. Gimballing action of such optical arrangement within the body is measured by a voltage induced in a cage coil. The precession coil and cage coil are mounted adjacent to each other. The...

...coil compensator comprising a differencing network and a differentiator. Changes in the current fed to the precession coil induces unwanted voltage in the adjacent cage coil. The differentiator is fed by the current in...

Claims:

...a differencing network and a differentiator. Changes in the current fed to the precession coil induces unwanted voltage in the adjacent cage coil. The differentiator is fed by the current in the precession...

...to the rate of change in the current in the precession coil and hence, related to the undesired voltage induced in the cage coil...

...the precession coil (64); and, (b) differencing means (90) fed by:
(i) the voltage (R2) induced in the cage coil (68), such induced voltage having a desired component (91) related to the motion...

12/3,K/16 (Item 11 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2008 The Thomson Corporation. All rts. reserv.

0005141307 - Drawing available
WPI ACC NO: 1990-130445/199017
XRPX Acc No: N1990-100984
Magnetic lubricating materials structural strength testing - applying magnetic lubricating material to friction bodies moving relative to one another
Patent Assignee: MACH SCIENCE INST (MACH-R)
Inventor: DANILOV V D; PAVLOV V G; VOLOBUEV N K
Patent Family (1 patents, 1 countries)
Patent Application
Number Kind Date Number Kind Date Update
SU 1490594 A 19890630 SU 4342993 A 19871216 199017 B

Priority Applications (no., kind, date): SU 4342993 A 19871216

Alerting Abstract ...magnetic lubricating material to friction bodies moving the bodies relative to one another, applying a magnetic field to them, loading and recording the parameters of contact interaction of the friction bodies, to...

...and the time required by the lubricating material to pass the given contact zone is measured . A pulsed voltage is applied to the friction body at a frequency corresp. to the indicated time or a multiple of it...

12/3,K/17 (Item 12 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2008 The Thomson Corporation. All rts. reserv.

0004159424
WPI ACC NO: 1987-269681/198738
XRPX Acc No: N1987-201874
Electric locomotive A.C. power meter - has filter and capacitor to separate stable and variable components of induced signal
Patent Assignee: ELEC LOCOMOTIVE (ELLO-R)
Inventor: MOSKALEV B A; POPOV V B
Patent Family (1 patents, 1 countries)
Patent Application
Number Kind Date Number Kind Date Update

SU 1288616 A 19870207 SU 3573790 A 19830407 198738 B

Priority Applications (no., kind, date): SU 3573790 A 19830407

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
SU 1288616	A	RU	4	2		

Alerting Abstract ...with Hall sensor (1) is placed around the h.v. winding and the magnetic flux induces a current proportional to the usage. The voltage from sensor (1) is amplified and filter (12) separates ...

...USE - Measurement of power parameters of high voltage plant e.g. electric locomotives and traction current substations for electrified railways. Bul.5/7.2...

12/3,K/18 (Item 13 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2008 The Thomson Corporation. All rts. reserv.

0002793238

WPI ACC NO: 1983-840458/198350

XRAM Acc No: C1983-120965

XRPX Acc No: N1983-221608

Meter for physical parameters, esp. voltages using optical sensor - fed with light of two different wavelengths by optical fibre connected to detector photodiode

Patent Assignee: ASEA AB (ALLM)

Inventor: ADOLFSSON M; BROGARDH I; BROGARDH T; HOK B; OVREN C

Patent Family (4 patents, 8 countries)

Patent		Application	
Number	Kind	Date	Update
EP 95998	A	19831207	EP 1983710029 A 19830524 198350 B
SE 198203391	A	19840116	SE 19823391 A 19820602 198405 E
US 4514860	A	19850430	US 1983499487 A 19830531 198520 E
CA 1189721	A	19850702	198531 E

Priority Applications (no., kind, date): SE 19823391 A 19820602

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
EP 95998	A	DE	21	10		

Regional Designated States,Original: CH DE FR GB LI

SE 198203391 A SV

CA 1189721 A EN

Alerting Abstract ...The parameter to be measured is esp. a voltage (U), or a magnetic field, fed by two wires to ohmic contacts on a luminescent layer (a) in a sensor...

...Used for example in measuring voltages or electric current in plant using high currents.

Original Publication Data by Authority

Original Abstracts:

A fiber optical measuring device for measuring primarily electric voltage or magnetic field, comprises a transducer having a sensor element, the transducer being connected by means of at...

12/3,K/19 (Item 14 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2008 The Thomson Corporation. All rts. reserv.

0002203212

WPI ACC NO: 1981-B2054D/198107

Magnetic inductive HV measuring device - has insulating body clamped to rail with integrating coil remote from measuring coil

Patent Assignee: SCHMIDT F (SCHM-I)

Inventor: SCHMIDT F

Patent Family (1 patents, 1 countries)

Patent Application

Number	Kind	Date	Number	Kind	Date	Update
DD 144618	A	19801022	DD 206999	A	19780728	198107 B

Alerting Abstract ...The voltage measuring device with an insulating body (2) which is clamped onto a h.v. conductor rail (1) uses a measuring coil...

...to the rail. The coil is mounted around an iron core (4) to concentrate the magnetic field.

...

...vertically, and at right angles to that of the first coil, and affected by the magnetic field by a min. amount. The insulating body can be screened in the region of the

12/3,K/20 (Item 15 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2008 The Thomson Corporation. All rts. reserv.

0001952648

WPI ACC NO: 1980-58991C/198034

Nuclear reactor cooling pipe fluid metal flowmeter - is hollow tube contg. voltage inducing magnet and measurement electrodes

Patent Assignee: KERNFORSCHUNGSZENT KARLSRUHE (GESL)

Inventor: GLAUNER W; MUELLER S; MULLER S; THUN G

Patent Family (4 patents, 4 countries)

Patent Application

Number	Kind	Date	Number	Kind	Date	Update
DE 2905070	A	19800814	DE 2905070	A	19790210	198034 B
GB 2046916	A	19801119			198047	E
FR 2448709	A	19801010			198048	E
US 4322982	A	19820406	US 1980120514	A	19800211	198216 E

Priority Applications (no., kind, date): DE 2905070 A 19790210

Alerting Abstract ...dia. pipes and has a magnet inducing an electrical voltage in the metal and a voltage measurement electrode. A flow resistance body (5) inserted diametrically through one of the pipe (4) walls induces turbulence in the metal...

Original Publication Data by Authority

Original Abstracts:

...The drag body which generates vortexes in the flow, accommodates a magnet that generates a magnetic field in the liquid metal. The potential difference induced in the liquid and being a function of the flow velocity...

12/3,K/21 (Item 16 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2008 The Thomson Corporation. All rts. reserv.

0000681872

WPI ACC NO: 1974-86809V/197450

Bismuth selenide Hall effect magnetometer - having linear voltage output at constant temp. for fields up to eight tesla

Patent Assignee: US ADMINISTRATOR OF NATI (USAS)

Patent Family (1 patents, 1 countries)

Patent Application

Number	Kind	Date	Number	Kind	Date	Update
--------	------	------	--------	------	------	--------

US 3849875	A	19741126	US 1972254173	A	19720517	197450 B
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			US 1973327969	A	19730130	
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Alerting Abstract ...and (b) cleaving to form a layer plane body. The body is disposed in a magnetic field perpendicular to the layer plane and variable over 0-10 tesla, at 1.2-300K, a current is directed through it perpendicular to the magnetic field and the voltage is measured between two points on the body lying in a line perpendicular to both field and current. The slope of the Hall resistivity vs. magnetic field curve varies by only 20% or less over the entire temp. range, and the magnetometer...

17/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2008 The Thomson Corporation. All rts. reserv.

0017112277 - Drawing available
WPI ACC NO: 2007-827228/200777
XRPX Acc No: N2007-657854
DC-DC converter for generating output voltage in e.g. personal computer`s hard disk drive, has control circuit supplying load with negative charging current from battery when consumption current of load exceeds preset value
Patent Assignee: FUJITSU LTD (FUIT)
Inventor: MATSUMOTO T; OZAWA H; YOSHINO T
Patent Family (4 patents, 4 countries)
Patent Application
Number Kind Date Number Kind Date Update
US 20070216378 A1 20070920 US 2006512318 A 20060830 200777 B
JP 2007252154 A 20070927 JP 2006075910 A 20060320 200777 E
KR 2007095170 A 20070928 KR 90576 A 20060919 200810 E
CN 101043151 A 20070926 CN 10154197 A 20060918 200812 E

Priority Applications (no., kind, date): JP 2006075910 A 20060320

Patent Details
Number Kind Lan Pg Dwg Filing Notes
US 20070216378 A1 EN 20 6
JP 2007252154 A JA 24

DC-DC converter for generating output voltage in e.g. personal computer`s hard disk drive, has control circuit supplying load with negative charging current from battery...

Original Publication Data by Authority

Original Abstracts:
...secondary battery in accordance with a consumption current of a load so that the input current does not exceed the rated current . The DC-DC converter further controls a negative charging current that is supplied from the secondary battery to the load when the load requires an input current exceeding...

17/3,K/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2008 The Thomson Corporation. All rts. reserv.

0014300791 - Drawing available
WPI ACC NO: 2004-487737/200446
XRPX Acc No: N2004-384797
Power switching circuit e.g. boost circuit for personal computer processor, has high and low side FETs, where latter FET has sense FET part providing signal on current signal node representing current passing through low side FET

Patent Assignee: KONINK PHILIPS ELECTRONICS NV (PHIG)

Inventor: RUTTER P; WHEELER N J

Patent Family (7 patents, 106 countries)

Patent

Application

Number	Kind	Date	Number	Kind	Date	Update
WO 2004051832	A1	20040617	WO 2003IB5303	A	20031119	200446 B
AU 2003276625	A1	20040623	AU 2003276625	A	20031119	200472 E
EP 1568121	A1	20050831	EP 2003812224	A	20031119	200561 E
			WO 2003IB5303	A	20031119	
JP 2006508630	W	20060309	WO 2003IB5303	A	20031119	200620 E
			JP 2004556619	A	20031119	
US 20060066288	A1	20060330	WO 2003IB5303	A	20031119	200624 E
			US 2005536244	A	20050524	
CN 1717856	A	20060104	CN 200380104328	A	20031119	200639 E
US 7102337	B2	20060905	WO 2003IB5303	A	20031119	200660 E
			US 2005536244	A	20050524	

Priority Applications (no., kind, date): GB 200227790 A 20021129

Patent Details

Number Kind Lan Pg Dwg Filing Notes

WO 2004051832 A1 EN 18 4

National Designated States,Original: AE AG AL AM AT AU AZ BA BB BG BR BY

BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU

ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX

MZ NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ

UA UG US UZ VC VN YU ZA ZM ZW

Regional Designated States,Original: AT BE BG BW CH CY CZ DE DK EA EE ES

FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL

SZ TR TZ UG ZM ZW

AU 2003276625 A1 EN Based on OPI patent WO 2004051832

EP 1568121 A1 EN PCT Application WO 2003IB5303

Based on OPI patent WO 2004051832

Regional Designated States,Original: AL AT BE BG CH CY CZ DE DK EE ES FI

FR GB GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

JP 2006508630 W JA 12 PCT Application WO 2003IB5303

Based on OPI patent WO 2004051832

US 20060066288 A1 EN PCT Application WO 2003IB5303

US 7102337 B2 EN PCT Application WO 2003IB5303

Based on OPI patent WO 2004051832

Alerting Abstract ...Used as boost circuit and buck-boost circuit in a voltage regulator for supplying a voltage to a personal computer processor.

...

...ADVANTAGE - The sense FET part provides the signal on the current signal node representing the current passing through the low side FET without the need to measure the current passing through the high side switch

17/3,K/3 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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0011072221 - Drawing available
WPI ACC NO: 2002-007372/200201
XRPX Acc No: N2002-006462

Current-volt measuring apparatus for transmission-and-distribution line has
radio transmitter which sends measurement signal from measurement waveform
of signal processor as electromagnetic wave

Patent Assignee: KOYO DENKI KOGYO KK (KOYO-N); KYUSHU ELECTRIC POWER CO
LTD (KYUE); SEIKO DENKI SEISAKUSHO KK (SEIK-N)

Inventor: KURIBAYASHI H; KUWANAMI K; MATSUDA T; NISHIYAMA E; OTA I; UDA K;
UEDA N

Patent Family (1 patents, 1 countries)

Patent Application

Number	Kind	Date	Number	Kind	Date	Update
JP 2001289885	A	20011019	JP 2000101086	A	20000403	200201 B

Priority Applications (no., kind, date): JP 2000101086 A 20000403

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
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JP 2001289885	A	JA	12	9		
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Alerting Abstract ...transmission-and-distribution line in main body
without using insulated support. Ensures effective and continuous
measurement of current and voltage flowing in transmission-and-
distribution line .

18/3,K/1 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO
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06172325 **Image available**

BODY FAT QUANTITY GAUGE AND WEIGHING SCALE HAVING BODY FAT QUANTITY
GAUGE

PUB. NO.: 11-113872 [JP 11113872 A]
PUBLISHED: April 27, 1999 (19990427)
INVENTOR(s): OGUMA KOJI
APPLICANT(s): TANITA CORP
APPL. NO.: 09-299602 [JP 97299602]
FILED: October 17, 1997 (19971017)

ABSTRACT

...impedance measuring electrodes, and measuring living body impedance only
when generating voltage of a constant current source is not more than
prescribed voltage .

SOLUTION: A living body impedance measuring device composed of a pair
of electrodes A (A1 and A2) to contact with tiptoe...

18/3,K/2 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0010900006 - Drawing available
WPI ACC NO: 2001-520745/200157
XRPX Acc No: N2001-385681

Image forming apparatus e.g. compound machine, executes specified sequence
to adjust transfer bias every time when specified condition is satisfied,
and stops execution when transfer bias reaches saturation limit

Patent Assignee: MURATA KIKAI KK (MURK)

Inventor: SASAI T

Patent Family (4 patents, 28 countries)

Patent Application

Number	Kind	Date	Number	Kind	Date	Update
US 20010009616	A1	20010726	US 2001768701	A	20010124	200157 B
EP 1120693	A2	20010801	EP 2001100979	A	20010117	200158 E
JP 2001209261	A	20010803	JP 200016479	A	20000126	200159 E
US 6381425	B2	20020430	US 2001768701	A	20010124	200235 E

Priority Applications (no., kind, date): US 2001768701 A 20010124; JP
200016479 A 20000126

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
US 20010009616	A1	EN	10	5		
EP 1120693	A2	EN				

Regional Designated States,Original: AL AT BE CH CY DE DK ES FI FR GB GR
IE IT LI LT LU LV MC MK NL PT RO SE SI TR
JP 2001209261 A JA 7

Original Publication Data by Authority

Claims:

...circuit for applying a test voltage and a transfer bias to the transfer member;a current detecting circuit for detecting a current running in the transfer member when the test voltage is applied to the transfer member; anda control unit for executing a sequence applying the test voltage to the...

18/3,K/3 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2008 The Thomson Corporation. All rts. reserv.

0009080805

WPI ACC NO: 1998-585862/199850

Related WPI Acc No: 2001-140252; 2001-140253; 2001-193235

XRAM Acc No: C1998-175470

XRPX Acc No: N1998-456706

Measuring nitrogen oxide concentration in exhaust gas - by correcting nitrogen oxide gas sensor output in response to oxygen concentration in the gas, based on correspondence between the sensor output and a current flow

Patent Assignee: NGK SPARK PLUG CO LTD (NITS); ANDO M (ANDO-I); ISHIDA N (ISHI-I); KUZUYA Y (KUZU-I); NADANAMI N (NADA-I); OKUMURA T (OKUM-I); OSHIMA T (OSHI-I); OTSUKA T (OTSU-I); SATO Y (SATO-I); SUGAYA S (SUGA-I)

Inventor: ANDO M; ISHIDA N; KUZUTANI Y; KUZUYA Y; NADANAMI N; OKUMURA T; OSHIMA T; OTSUKA T; SATO Y; SUGAYA S

Patent Family (18 patents, 26 countries)

Patent		Application			
Number	Kind	Date	Number	Kind	Date Update
EP 878709	A2	19981118	EP 1998105231	A	19980323 199850 B
JP 10267885	A	19981009	JP 199787361	A	19970321 199851 E
JP 11023528	A	19990129	JP 1998137724	A	19980501 199915 E
JP 11108887	A	19990423	JP 1998223211	A	19980806 199927 E
JP 11148910	A	19990602	JP 1998255626	A	19980909 199932 E
US 20020017467	A1	20020214	US 199845938	A	19980323 200214 E
US 6375828	B2	20020423	US 199845938	A	19980323 200232 E
US 20020130053	A1	20020919	US 199845938	A	19980323 200264 E
		US 200266684	A	20020206	
JP 3372186	B2	20030127	JP 199787361	A	19970321 200315 E
US 20030042151	A1	20030306	US 199845938	A	19980323 200320 E
		US 200266638	A	20020206	
JP 3501956	B2	20040302	JP 1998223211	A	19980806 200416 E
JP 2004108373	A	20040408	JP 1998255626	A	19980909 200425 E
		JP 2003359091	A	20031020	
US 6743352	B2	20040601	US 199845938	A	19980323 200436 E
		US 200266684	A	20020206	
EP 878709	B1	20040825	EP 1998105231	A	19980323 200456 E
		EP 2000109522	A	19980323	

EP 2000109523 A 19980323
 EP 2000109915 A 19980323
 DE 69825813 E 20040930 DE 69825813 A 19980323 200465 E
 EP 1998105231 A 19980323
 JP 3589872 B2 20041117 JP 1998255626 A 19980909 200475 E
 JP 3621827 B2 20050216 JP 1998137724 A 19980501 200513 E
 US 6923902 B2 20050802 US 199845938 A 19980323 200550 E
 US 200266638 A 20020206

Priority Applications (no., kind, date): JP 199787361 A 19970321; JP
 1997130354 A 19970502; JP 1997224225 A 19970806; JP 1997264972 A
 19970911

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
EP 878709	A2	EN	65	36		

Regional Designated States,Original: AL AT BE CH DE DK ES FI FR GB GR IE
 IT LI LT LU LV MC MK NL PT RO SE SI

JP 10267885 A JA 10 12

JP 11023528 A JA 18 7

JP 11108887 A JA 13 12

JP 11148910 A JA 11

US 20020130053 A1 EN Division of application US 199845938

JP 3372186 B2 JA 11 Previously issued patent JP 10267885

US 20030042151 A1 EN Division of application US 199845938

Division of patent US 6375828
 JP 3501956 B2 JA 13 Previously issued patent JP 11108887

JP 2004108373 A JA 12 Division of application JP 1998255626

US 6743352 B2 EN Division of application US 199845938

Division of patent US 6375828
 EP 878709 B1 EN Related to application EP 2000109522
 Related to application EP 2000109523
 Related to application EP 2000109915
 Related to patent EP 1074833
 Related to patent EP 1074834
 Related to patent EP 1077375

Regional Designated States,Original: DE FR GB IT SE

DE 69825813 E DE Application EP 1998105231

Based on OPI patent EP 878709

JP 3589872 B2 JA 14 Previously issued patent JP 11148910

JP 3621827 B2 JA 20 Previously issued patent JP 11023528

US 6923902 B2 EN Division of application US 199845938

Division of patent US 6375828

Documentation Abstract

...conductivity. O₂ is extracted through the ceramic body, remaining NO_x
 is dissociated by applying a voltage to electrodes on the ceramic body ,

and the current is measured and corrected as before...

22/3,K/1 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2008 JPO & JAPIO. All rts. reserv.

04108261 **Image available**
MEASUREMENT DEVICE

PUB. NO.: 05-099961 [JP 5099961 A]
PUBLISHED: April 23, 1993 (19930423)
INVENTOR(s): MIZUNO ATSUSHI
APPLICANT(s): HIOKI EE CORP [399815] (A Japanese Company or Corporation),
JP (Japan)
APPL. NO.: 03-289186 [JP 91289186]
FILED: October 08, 1991 (19911008)
JOURNAL: Section: P, Section No. 1594, Vol. 17, No. 448, Pg. 30,
August 17, 1993 (19930817)

ABSTRACT

... measured body 1 and a measurement circuit 3 to calculate a measurement value of the measured body 1 using the voltage generated in the measured body 1 by the constant current i, are a second basic voltage generation circuit 13 generating...

... store the previous offset value, measure the above measured body 1 in the case the current i is not in open state, correct the measured value using the offset value and obtain the true...

22/3,K/2 (Item 2 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2008 JPO & JAPIO. All rts. reserv.

02095973 **Image available**
MULTIPOINT THREE WIRE MEASURING CIRCUIT

PUB. NO.: 62-012873 [JP 62012873 A]
PUBLISHED: January 21, 1987 (19870121)
INVENTOR(s): NISHIYAMA YUTAKA
MIZUHARA HIROHISA
APPLICANT(s): MITSUBISHI ELECTRIC CORP [000601] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 60-153454 [JP 85153454]
FILED: July 10, 1985 (19850710)
JOURNAL: Section: P, Section No. 586, Vol. 11, No. 186, Pg. 61, June 16, 1987 (19870616)

ABSTRACT

PURPOSE: To convert only a resistance value varying component out of a resistor type temperature measuring body into a voltage signal by constituting a constant current path only by one constant current source without forming a bridge circuit in an input circuit selected by an analog switch...

22/3,K/3 (Item 1 from file: 350)

DIALOG(R)File 350:Derwent WPIX
(c) 2008 The Thomson Corporation. All rts. reserv.

0010958250 - Drawing available
WPI ACC NO: 2001-581432/200165
XRPX Acc No: N2001-433150

Bioelectric impedance measuring device, using two pairs of electrodes coupled to body to produce voltage signals which are compared to control signal providing accurate impedance measurements using portable apparatus
Patent Assignee: MEASUREMENT SPECIALITIES INC (MEAS-N); MEASUREMENT SPECIALITIES INC (MEAS-N)

Inventor: ORBINE S A; PETRUCELLI S P

Patent Family (4 patents, 88 countries)

Patent Application

Number	Kind	Date	Number	Kind	Date	Update
WO 2001050954	A1	20010719	WO 2000US8269	A	20000329	200165 B
US 6292690	B1	20010918	US 2000481584	A	20000112	200165 E
AU 200039287	A	20010724	AU 200039287	A	20000329	200166 E
JP 2003519522	W	20030624	WO 2000US8269	A	20000329	200341 E
			JP 2001551380	A	20000329	

Priority Applications (no., kind, date): US 2000481584 A 20000112

Patent Details

Number Kind Lan Pg Dwg Filing Notes

WO 2001050954 A1 EN 47 5

National Designated States,Original: AE AL AM AT AU AZ BA BB BG BR BY CA

CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE

KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU

SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Regional Designated States,Original: AT BE CH CY DE DK EA ES FI FR GB GH

GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW

AU 200039287 A EN Based on OPI patent WO 2001050954

JP 2003519522 W JA 37 PCT Application WO 2000US8269

Based on OPI patent WO 2001050954

Original Publication Data by Authority

Original Abstracts:

A circuit for measuring body impedance comprising a voltage source having a predetermined frequency and a current source; a first pair of electrodes adapted...

...A second pair of electrodes (25, 26) are used as voltage sense electrodes where no current flows. These electrodes interface with a second portion of the body (e.g., are coupled to the heels). The...

22/3,K/4 (Item 2 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2008 The Thomson Corporation. All rts. reserv.

0010900608 - Drawing available

WPI ACC NO: 2001-521362/200157

Related WPI Acc No: 2001-159713; 2001-159714; 2003-090817; 2006-055121

XRAM Acc No: C2001-155699

Creating differential electric charge between two points separated by medium comprising biological cells and determining character of biological cells by analyzing measurement of electrical parameter between points

Patent Assignee: UNIV CALIFORNIA (REGC)

Inventor: HUANG Y; RUBINSKY B

Patent Family (5 patents, 93 countries)

Patent Application

Number	Kind	Date	Number	Kind	Date	Update
WO 2001007583	A1	20010201	WO 2000US19971	A	20000720	200157 B
AU 200063642	A	20010213	AU 200063642	A	20000720	200157 E
EP 1196550	A2	20020417	EP 2000950548	A	20000720	200233 E
			WO 2000US19971	A	20000720	
US 6482619	B1	20021119	US 1999358510	A	19990721	200280 E
			US 2000618951	A	20000719	
JP 2003505072	W	20030212	WO 2000US19971	A	20000720	200321 E
			JP 2001512853	A	20000720	

Priority Applications (no., kind, date): US 1999358510 A 19990721; US 2000618951 A 20000719

Patent Details

Number Kind Lan Pg Dwg Filing Notes

WO 2001007583 A1 EN 45 11

National Designated States,Original: AE AG AL AM AT AU AZ BA BB BG BR BY

BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN

IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ

PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

Regional Designated States,Original: AT BE CH CY DE DK EA ES FI FR GB GH

GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW

AU 200063642 A EN Based on OPI patent WO 2001007583

EP 1196550 A2 EN PCT Application WO 2000US19971

Based on OPI patent WO 2001007583

Regional Designated States,Original: AL AT BE CH CY DE DK ES FI FR GB GR

IE IT LI LT LU LV MC MK NL PT RO SE SI

US 6482619 B1 EN C-I-P of application US 1999358510

JP 2003505072 W JA 54 PCT Application WO 2000US19971

Based on OPI patent WO 2001007583

Alerting Abstract ...electric current flow to a flow path passing through the biological cell while permitting substantially no electric current to bypass the biological cell; and imposing a voltage across the electrical cell and monitoring the relative values of current passing through the cell and of the imposed voltage as an indication of the occurrence...

Extension Abstract

...steady manner as the voltage increases when there was no barrier to the passage of current through the opening. The data taken with the ND-1 cells across the opening showed that at...

Original Publication Data by Authority

Original Abstracts:

...of a tissue of a living organism. A first electrical parameter which may be current, voltage, or electrical impedance is measured. A second electrical parameter which may be current, voltage or a combination of both

is...

Claims:

...electrical cell, the barrier restricts electric current flow to a flowpath passing through the biological cell while permitting substantially no electric current to bypass the biological cell;(b) imposing a voltage across the electrical cell and monitoring the relative values of current passing through the cell...

22/3,K/5 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2008 The Thomson Corporation. All rts. reserv.

0010840402 - Drawing available
WPI ACC NO: 2001-458532/200150
Related WPI Acc No: 2001-204225
XRPX Acc No: N2001-339891

Computer modeling of high or medium voltage switching plant in which the plant is modeled using colored lines and virtual power sources and switches with the color representing line state, e.g. live, passive, earthed, etc.

Patent Assignee: ABB POWER AUTOMATION AG (ALLM)

Inventor: MATAJI B; WIMMER W

Patent Family (1 patents, 25 countries)

Patent	Application			
Number	Kind Date	Number	Kind Date	Update
EP 1069517	A1 20010117	EP 1999810643	A 19990716	200150 B

Priority Applications (no., kind, date): EP 1999810643 A 19990716

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
EP 1069517	A1	DE	7	3		

Regional Designated States,Original: AL AT BE CH CY DE DK ES FI FR GB GR
IE IT LI LT LU LV MC MK NL PT RO SE SI

Computer modeling of high or medium voltage switching plant in which the plant is modeled using colored lines and virtual power sources and switches with the color representing...

Alerting Abstract ...ADVANTAGE - Computer modeling systems exist for distribution networks but do not currently exist for switching plant which are treated on an individual basis. The invention fulfils this...

22/3,K/6 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2008 The Thomson Corporation. All rts. reserv.

0010598793 - Drawing available
WPI ACC NO: 2001-204225/200121
Related WPI Acc No: 2001-458532
XRPX Acc No: N2001-145878

Computer modeling of high or medium voltage switching plant in which the plant is modeled using colored lines and virtual power sources and

switches with the color representing line state, e.g. live, passive, earthed, etc.

Patent Assignee: ABB POWER AUTOMATION AG (ALLM); ABB SCHWEIZ AG (ALLM)

Inventor: MATAJI B; WIMMER W

Patent Family (3 patents, 24 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
EP 1069518	A1	20010117	EP 1999810755	A	19990823	200121 B
EP 1069518	B1	20030115	EP 1999810755	A	19990823	200306 E
DE 59904045	G	20030220	DE 59904045	A	19990823	200314 E
			EP 1999810755	A	19990823	

Priority Applications (no., kind, date): EP 1999810643 A 19990716; EP 1999810755 A 19990823

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
EP 1069518	A1	DE	8	3		

Regional Designated States,Original: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

EP 1069518 B1 DE

Regional Designated States,Original: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DE 59904045 G DE Application EP 1999810755
Based on OPI patent EP 1069518

Computer modeling of high or medium voltage switching plant in which the plant is modeled using colored lines and virtual power sources and switches with the color representing...

Alerting Abstract ...ADVANTAGE - Computer modeling systems exist for distribution networks but do not currently exist for switching plant which are treated on an individual basis. The invention fulfills this...

***** (may be)

22/3,K/7 (Item 5 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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0009884598 - Drawing available

WPI ACC NO: 2000-181684/200016

Related WPI Acc No: 2001-167533

XRPX Acc No: N2000-134101

Delay calculation method for simulation of SOI FET

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)

Inventor: ASSADERAGHI F; SMITH G E; WAGNER L F; WALTERS T L

Patent Family (1 patents, 1 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
US 6023577	A	20000208	US 1997938676	A	19970926	200016 B

Priority Applications (no., kind, date): US 1997938676 A 19970926

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
US 6023577	A	EN	4	1		

Alerting Abstract DESCRIPTION - The value of ideal voltage source is set by calculating static body voltage based on terminal voltages and temperature at which voltage settle at after long time with...

Original Publication Data by Authority

Original Abstracts:

...whose value is a constant times the voltage across itself. When the constant is zero no current can flow, and any additional components have no effect on the circuit. When the constant...

22/3,K/8 (Item 6 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2008 The Thomson Corporation. All rts. reserv.

0008880764 - Drawing available
WPI ACC NO: 1998-429057/199837
XRPX Acc No: N1998-334976

Power circuit with battery incorrect-polarity protection e.g. for motor vehicle application - has semiconducting component, such as triac with added diode connected to driver circuit to safeguard latter if reversed polarity voltage is applied

Patent Assignee: INT RECTIFIER CORP (INRC)

Inventor: MILLER R

Patent Family (9 patents, 6 countries)

Patent		Application					
Number	Kind	Date	Number	Kind	Date	Update	
DE 19803040	A1	19980806	DE 19803040	A	19980127	199837	B
FR 2759213	A1	19980807	FR 19981038	A	19980130	199837	E
GB 2323175	A	19980916	GB 19981974	A	19980129	199839	E
JP 11027854	A	19990129	JP 199820708	A	19980202	199915	E
US 5939863	A	19990817	US 199736019	P	19970131	199939	E
			US 199759025	P	19970916		
			US 199816043	A	19980130		
FR 2779880	A1	19991217	FR 19981038	A	19980130	200006	E
			FR 199910068	A	19990803		
GB 2323175	B	20010725	GB 19981974	A	19980129	200143	E
JP 3220427	B2	20011022	JP 199820708	A	19980202	200169	E
IT 1298519	B	20000112	IT 1998MI173	A	19980130	200175	E

Priority Applications (no., kind, date): US 199736019 P 19970131; US 199759025 P 19970916; US 199816043 A 19980130

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
DE 19803040	A1	DE	12	7		
JP 11027854	A	JA	7			
US 5939863	A	EN			Related to Provisional	US 199736019
					Related to Provisional	US 199759025
FR 2779880	A1	FR			Division of application	FR 19981038
JP 3220427	B2	JA	7		Previously issued patent	JP 11027854

Alerting Abstract ...so that when a reverse voltage is applied at the positive terminal, the component conducts no current and no power is applied to the driver circuit...

Original Publication Data by Authority

Claims:

...a reverse voltage is applied to the positive input terminal, the power semiconductor device does not conduct current and no power is applied to the driving circuit; a current sensing terminal coupled to the source, wherein the voltage from the current sensing terminal to the ground terminal measures the current flowing through the power circuit; and a temperature terminal...

...circuit is turned off, the voltage from the current sensing terminal to the ground terminal measures the voltage drop of the body diode which is representative of the temperature thereof.

22/3,K/9 (Item 7 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2008 The Thomson Corporation. All rts. reserv.

0007847617

WPI ACC NO: 1996-477359/199647

XRAM Acc No: C1996-149158

XRPX Acc No: N1996-402508

Structure and fabrication of MOSFET having a multi part channel - with alleviation of hot carrier injection while allowing source and drain characteristics to be decoupled

Patent Assignee: NAT SEMICONDUCTOR CORP (NASC)

Inventor: BULUCEA C

Patent Family (5 patents, 19 countries)

Patent Application

Number	Kind	Date	Number	Kind	Date	Update
WO 1996032747	A1	19961017	WO 1996US5143	A	19960411	199647 B
EP 765530	A1	19970402	EP 1996912745	A	19960411	199718 E
			WO 1996US5143	A	19960411	
US 5744372	A	19980428	US 1995420927	A	19950412	199824 E
			US 1995456454	A	19950601	
US 6078082	A	20000620	US 1995420927	A	19950412	200035 E
			US 1997893628	A	19970711	
US 6576966	B1	20030610	US 1995420927	A	19950412	200340 E
			US 1997893628	A	19970711	
			US 2000535434	A	20000323	

Priority Applications (no., kind, date): US 1995420927 A 19950412; US 1995456454 A 19950601; US 1997893628 A 19970711; US 2000535434 A 20000323

Patent Details

Number Kind Lan Pg Dwg Filing Notes

WO 1996032747 A1 EN 69 24

National Designated States,Original: DE KP

Regional Designated States,Original: AT BE CH DE DK ES FI FR GB GR IE IT
LU MC NL PT SE

EP 765530 A1 EN PCT Application WO 1996US5143

Based on OPI patent WO 1996032747

Regional Designated States,Original: DE FR GB

US 5744372 A EN 28 Division of application US 1995420927

US 6078082 A EN Continuation of application US
1995420927

US 6576966 B1 EN Continuation of application US
1995420927

Continuation of application US

1997893628

Continuation of patent US 6078082

Documentation Abstract

...current drive capability to be achieved while LDD extension (50)
improves the hot carrier reliability without reducing the drain
current . (RBH)

Original Publication Data by Authority

Original Abstracts:

...carrier effects. The input channel portion is situated in a threshold
body zone whose doping determines the threshold voltage . Importantly ,
the provision of a lightly doped source extension is avoided so that
improving the drain characteristics does not...

...input channel portion of each transistor is situated in a threshold body
zone whose doping determines the threshold voltage . Importantly, the
provision of lightly doped source extensions is avoided so that
improving the drain characteristics does not harm the source
characteristics, and vice...

...carrier effects. The input channel portion is situated in a threshold
body zone whose doping determines the threshold voltage . Importantly,
the provision of a lightly doped source extension is avoided so that
improving the drain characteristics does...the drain characteristics does
not harm the source characteristics,and vice versa. In fabricating
complementary versions of the transistor , the threshold body zone of
one transistor can be formed at the same time as the drain extension...

22/3,K/10 (Item 8 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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0002766370

WPI ACC NO: 1983-808890/198345

Remote DC supply for communications transponders - initiates supply in
dependence on measured test current threshold

Patent Assignee: SIEMENS AG (SIED)

Inventor: MUSIL G; ZIEGLER A

Patent Family (6 patents, 12 countries)

Patent Application

Number	Kind	Date	Number	Kind	Date	Update
--------	------	------	--------	------	------	--------

DE 3216497 A 19831103 DE 3216497 A 19820503 198345 B
 EP 97233 A 19840104 EP 1983104235 A 19830429 198402 E
 JP 58201427 A 19831124 JP 198372318 A 19830426 198402 E
 US 4507568 A 19850326 US 1983488443 A 19830425 198515 E
 EP 97233 B 19870107 EP 1983104235 A 19830429 198701 E
 DE 3369046 G 19870212 DE 3216497 A 19820503 198707 E

Priority Applications (no., kind, date): DE 3216497 A 19820503

Patent Details

Number Kind Lan Pg Dwg Filing Notes

DE 3216497 A DE 16 1

EP 97233 A DE

Regional Designated States,Original: AT BE CH DE FR GB IT LI NL SE

EP 97233 B DE

Regional Designated States,Original: AT BE CH DE FR GB IT LI NL SE

Original Publication Data by Authority

Original Abstracts:

...dc voltage is applied to the loop in a polarity opposite to a normal feed voltage in order to determine whether interruptions are present, even if a human body is shunting the loop at the interruption. Each of the users has a diode connected...

...than the test resistance, then normal remote feed current is applied to the loop since no interruptions exist. If the loop resistance exclusive of the users is of a same magnitude or...

22/3,K/11 (Item 9 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2008 The Thomson Corporation. All rts. reserv.

0001980132

WPI ACC NO: 1980-B0009C/198005

Voltage measurement with human body in current circuit - uses low current liq. crystal or solid state display

Patent Assignee: LAUERER F (LAUE-I)

Inventor: LAUERER F

Patent Family (1 patents, 1 countries)

Patent Application

Number	Kind	Date	Number	Kind	Date	Update
--------	------	------	--------	------	------	--------

DE 2830323	A	19800124	DE 2830323	A	19780710	198005 B
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			DE 2835637	A	19780814	
--	--	--	------------	---	----------	--

			DE 2830323	A	19780710	
--	--	--	------------	---	----------	--

Priority Applications (no., kind, date): DE 2830323 A 19780710

Voltage measurement with human body in current circuit...

Alerting Abstract ...It avoids the limitations of usual devices with relatively high current consumption which give no or hardly any indication with low measurement voltages...

Full Text Files:-

File 9:Business & Industry(R) Jul/1994-2008/Mar 24
(c) 2008 The Gale Group
File 16:Gale Group PROMT(R) 1990-2008/Mar 24
(c) 2008 The Gale Group
File 160:Gale Group PROMT(R) 1972-1989
(c) 1999 The Gale Group
File 148:Gale Group Trade & Industry DB 1976-2008/Mar 10
(c)2008 The Gale Group
File 621:Gale Group New Prod.Annou.(R) 1985-2008/Mar 10
(c) 2008 The Gale Group
File 441:ESPICOM Pharm&Med DEVICE NEWS 2008/Jul W1
(c) 2008 ESPICOM Bus.Intell.
File 149:TGG Health&Wellness DB(SM) 1976-2008/Mar W2
(c) 2008 The Gale Group
File 15:ABI/Inform(R) 1971-2008/Mar 27
(c) 2008 ProQuest Info&Learning
File 624:McGraw-Hill Publications 1985-2008/Mar 27
(c) 2008 McGraw-Hill Co. Inc
File 635:Business Dateline(R) 1985-2008/Mar 25
(c) 2008 ProQuest Info&Learning
File 636:Gale Group Newsletter DB(TM) 1987-2008/Mar 21
(c) 2008 The Gale Group
File 135:NewsRx Weekly Reports 1995-2008/Mar W4
(c) 2008 NewsRx
File 275:Gale Group Computer DB(TM) 1983-2008/Mar 19
(c) 2008 The Gale Group
File 647:CMP Computer Fulltext 1988-2008/Mar W2
(c) 2008 CMP Media, LLC
File 674:Computer News Fulltext 1989-2006/Sep W1
(c) 2006 IDG Communications

Set	Items	Description
S1	18118	(MEASUR???? OR RECORD??? OR CALCULAT??? OR COMPUTE? ? OR - COMPUTES OR COMPUTING OR ANALY???? OR GUAG??? OR DETERMIN???- (5N)VOLTAGE? ?
S2	556554	(WITHOUT OR "NOT" OR "NO" OR WITH()OUT OR OMIT??? OR OMISI- ON OR EXCLUD???) (3N)CURRENT??
S3	434528	(APPLY???? OR APPLICATION OR SUPPL???? OR PROVID???? OR DI- STRIBUT????) (3N)CURRENT??
S4	68	S1(5W)(VEGETABLE? ? OR POTATO?? OR PLANT?? OR TREE OR CROP- ?? OR AGRICULTURE?? OR LIVING OR BODY OR BODIES OR CREATURE?? OR ANIMAL?? OR PERSON?? OR HUMAN OR MAN OR MEN OR CHILD OR AL- IVE)
S5	50802	INDUC??? (3N)CURRENT OR MAGNETIC(3N)FIELD?? OR EMF OR ELECT- RONIC(2N)MAGNETIC?? OR ELECTRO()MAGNETIC??
S6	2132	AU=(KAVET R? OR KAVET, R? OR NIPPLE J? OR NIPPLE, J? OR SU- LLIVAN T? OR SULLIVAN, T? OR ZAFFANELLA L? OR ZAFFANELLA, L?)

S7	7	S4 AND S5
S8	7	RD (unique items)
S9	2	S8 NOT PY>2000
S10	11	S4 AND S2
S11	8	RD (unique items)
S12	4	S11 NOT PY>2000
S13	1	S6 AND S1
S14	176	S1(7N)(VEGETABLE? ? OR POTATO?? OR PLANT?? OR TREE OR CROP- ?? OR AGRICULTURE?? OR LIVING OR BODY OR BODIES OR CREATURE?? OR ANIMAL?? OR PERSON?? OR HUMAN OR MAN OR MEN OR CHILD OR AL- IVE)
S15	108	S14 NOT S4
S16	9	S15 AND S5
S17	7	RD (unique items)
S18	2	S17 NOT PY>2000

9/3,K/1 (Item 1 from file: 149)
DIALOG(R)File 149:TGG Health&Wellness DB(SM)
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01240283 SUPPLIER NUMBER: 08956949 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Isolation of a G protein that is modified by learning and reduces potassium
currents in Hermissenda.
Nelson, Thomas J.; Collin, Carlos; Alkon, Daniel L.
Science, v247, n4949, p1479(5)
March 23,
1990
PUBLICATION FORMAT: Magazine/Journal ISSN: 0036-8075 LANGUAGE: English
RECORD TYPE: Fulltext TARGET AUDIENCE: Academic
WORD COUNT: 2309 LINE COUNT: 00205

... dependent] kinase II, might phosphorylate this 20-kD protein, in
turn producing the [K.sup.+] current changes induced by conditioning
[3, 5, 6].

To test these possibilities, Hermissenda were trained to associate
light...into isolated Hermissenda type B photoreceptors through one of the
two microelectrodes (that used for voltage measurement) used to
voltage clamp the cell body . Injection of cp20 reduced both early
[I.sub.A.)] and late ([I.sub.K-Ca...

...after, 24.0 [+ or -] 1.7 (n = 3)]. There were no changes in the light-
induced [Na.sup.+] current or in membrane resting potential after
injection of cp20.

Although changes in proteins have been...

9/3,K/2 (Item 1 from file: 624)
DIALOG(R)File 624:McGraw-Hill Publications
(c) 2008 McGraw-Hill Co. Inc. All rts. reserv.

0686599
Live-fire fault test of SVC: A lesson in power quality
Edited by John Reason
Electrical World, Vol. 209, No. 8, Pg 34
August, 1995
JOURNAL CODE: EW
SECTION HEADING: FEATURE: TRANSMISSION ISSN: 0013-4457
WORD COUNT: 1,933

TEXT:

... planning engineer at PGE, conducted some fault and stability studies
with the help of an electro - magnetic transients analysis program to
find the effect of the fault tests on PGE customers. Based...waveshapes as
the fault occurs and then upload the data via modem over telephone lines.
Voltage and current excursions recorded at the Intel plant are shown
in Fig 4.

The instrumentation confirmed that voltage disturbances at all locations were...

12/3,K/1 (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2008 The Gale Group. All rts. reserv.

04863313 Supplier Number: 47153387 (USE FORMAT 7 FOR FULLTEXT)
Carpi report heralds reform
Power in Europe, pN/A
Feb 24, 1997
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 2369

... that exclusive production, cross-border trading and transmission rights are forbidden by the directive.

"Because current Italian law is not in line with these liberalising principles, adoption of the directive will oblige the country to as to the single buyer. The market will determine the price of high voltage electricity, determining a merit order for production plant. As in any clearing house, notes the commission, the wholesale electricity market will make neither...

12/3,K/2 (Item 2 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2008 The Gale Group. All rts. reserv.

02961760 Supplier Number: 44010837 (USE FORMAT 7 FOR FULLTEXT)
Memory-card makers rethink flash: MOBILE COMPUTING PRESSES TECHNOLOGY ...
AND INTEL
Electronic Engineering Times, p1
August 2, 1993
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 3072

... devices as they push toward higher densities?

Can flash adapt to the low-current, low-voltage requirements of the portable computer market and specifications of the Personal Computer Memory Card International Association (PCMCIA)?

Is the random-access generic architecture of current NOR...only extend battery life but lower the cost of battery operation by reducing significantly the current requirements so that no more than a few AA alkaline batteries are needed for eight to 10 hours of...

12/3,K/3 (Item 1 from file: 149)
DIALOG(R)File 149:TGG Health&Wellness DB(SM)
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01312351 SUPPLIER NUMBER: 11704104 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Chronic dermal ulcer healing enhanced with monophasic pulsed electrical stimulation.
Feedar, Jeffrey A.; Kloth, Luther C.; Gentzkow, Gary D.
Physical Therapy, v71, n9, p639(11)
Sept,

1991

PUBLICATION FORMAT: Magazine/Journal ISSN: 0031-9023 LANGUAGE: English
RECORD TYPE: Fulltext; Abstract TARGET AUDIENCE: Professional
WORD COUNT: 4721 LINE COUNT: 00506

... shown that frog erythrocytes subjected to electrical current synthesize ribonucleic acid and protein, whereas erythrocytes not exposed to current do not produce appreciable amounts of macromolecules. In view of the significant differences between human and frog...

...surface of skin is negatively charged with respect to the positively charged dermis. The average voltage measured on the surface of human skin is -23.4 mV. [15] In wounded mammalian skin, wound currents have been shown...stimulator, or a control group, which used a stimulator that had been modified to produce no output current. The randomization procedure was controlled to ensure that equal numbers of patients

12/3,K/4 (Item 1 from file: 647)
DIALOG(R)File 647:CMP Computer Fulltext
(c) 2008 CMP Media, LLC. All rts. reserv.

00532293 CMP ACCESSION NUMBER: EET19930802S2580
MOBILE COMPUTING PRESSES TECHNOLOGY . . . AND INTEL - Memory-card makers rethink flash
BERNARD C. COLE
ELECTRONIC ENGINEERING TIMES, 1993, n 757, 1
PUBLICATION DATE: 930802
JOURNAL CODE: EET LANGUAGE: English
RECORD TYPE: Fulltext
SECTION HEADING: News
WORD COUNT: 3104

... devices as they push toward higher densities?
* Can flash adapt to the low-current, low-voltage requirements of the portable computer market and specifications of the Personal Computer Memory Card International Association (PCMCIA)?
* Is the random-access generic architecture of current NOR...only extend battery life but lower the cost of battery operation by reducing significantly the current requirements so that no more than a few AA alkaline batteries are needed for eight to 10 hours of...

13/3,K/1 (Item 1 from file: 149)
DIALOG(R)File 149:TGG Health&Wellness DB(SM)
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02943655 SUPPLIER NUMBER: 105162049 (USE FORMAT 7 OR 9 FOR FULL TEXT
)

Childhood leukemia: electric and magnetic fields as possible risk factors.
(Workshop Summary).

Brain, Joseph D.; Kavet, Robert ; McCormick, David L.; Poole, Charles;
Silverman, Lewis B.; Smith, Thomas J.; Valbergh, Peter A.; Van Etten, R.A.;
Weaver, James C.

Environmental Health Perspectives, 111, 7, 962(9)
June,
2003

PUBLICATION FORMAT: Magazine/Journal ISSN: 0091-6765 LANGUAGE: English
RECORD TYPE: Fulltext TARGET AUDIENCE: Academic
WORD COUNT: 9501 LINE COUNT: 00915

... Kavet, Robert

TEXT:

...magnetic fields. A contact current occurs when a person touches two
conductive surfaces at different voltages . Modeled analyses support
contact currents as a plausible metric because of correlations with
residential magnetic fields and...

... small children) has the opportunity to encounter contact currents.

Association between magnetic fields and contact voltages . In a
computer model, two sources of contact voltage were considered, which
appear either between the electrical panel (P) and the water line entering
...

...conditions, association between exposures, sufficient dose, and exposure
opportunity, have not been refuted in modeled analyses , the contact-
voltage explanation remains viable. However, the key exposure parameters
have not yet been characterized in a...

...field guidelines. Appl Occup Environ Hyg 16:1118-1138.

Kavet R, Zaffanella LE. 2002. Contact voltage measured in
residences: implications to the association between magnetic fields and
childhood leukemia. Bioelectromagnetics 23:464...

18/3,K/1 (Item 1 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2008 The Gale Group. All rts. reserv.

07820763 SUPPLIER NUMBER: 14755260 (USE FORMAT 7 OR 9 FOR FULL TEXT)
DA/DSM '94 show in print. (review of distribution automation, demand-side
management equipment displayed)
Electric Light & Power, v73, n1, p40(8)
Jan, 1994
ISSN: 0013-4120 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 3445 LINE COUNT: 00325

... fastened to light fixtures by a magnetic strip. Motor Loggers
operate by sensing the stray magnetic field, and CT Loggers have a
current transformer that detects current draw by clipping onto the...R.S.
126

AM/FM software
Automated Mapping/Facilities Management software, CableCad(P),
features load analysis, voltage drop, motor start, work order
generation, plant asset reporting, job costing and the ability to
interface to other systems, including SCADA. Applications...

18/3,K/2 (Item 2 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
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05213038 SUPPLIER NUMBER: 11066446 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Radiofrequency current catheter ablation of accessory atrioventricular
pathways.
Kuck, Karl-Heinz; Schluter, Michael; Geiger, Manfred; Siebels, Jurgen;
Duckeck, Wolfgang
Lancet, v337, n8757, p1557(5)
June 29, 1991
ISSN: 0099-5355 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 3955 LINE COUNT: 00337

... this generator stores data of radiofrequency current delivery
(power, duration, and cumulative energy) on a personal computer system
that is unable to calculate voltage, current, or impedance.

In patients with right-sided accessory pathways, radiofrequency
current was applied between...Discussion

Our study shows that ablation of accessory atrioventricular pathways
can be achieved by catheter-induced radiofrequency current,
irrespective of the electrophysiological characteristics and anatomical
site of the pathway. The approach is effective...